



BARGE "CBC 1366"

INNAGE TRIM TABLE

| | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 | 00-1/4 | - 00-1/4 |
| 2 CENTER | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 |
| 3 CENTER | 00-1/4 | - 00-1/4 | 00-1/2 | - 00-1/2 | 00-3/4 | - 00-3/4 | 00-7/8 | - 00-7/8 | 01-1/8 | - 01-1/8 | 01-3/8 | - 01-3/8 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 7/8'

LENGTH BETWEEN DRAFT MARKS: 161'-09"

August 20, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|
| 0 | 39 | 0 | 8,094 | 0 | 18,887 | 0 | 29,529 | 0 | 40,201 | 0 | 50,966 | 0 | 61,730 | 0 | 72,472 | 0 | 83,215 | 0 | 93,983 |
| 1/4 | 58 | 1/4 | 8,319 | 1/4 | 19,112 | 1/4 | 29,748 | 1/4 | 40,425 | 1/4 | 51,190 | 1/4 | 61,955 | 1/4 | 72,695 | 1/4 | 83,440 | 1/4 | 94,208 |
| 1/2 | 77 | 1/2 | 8,544 | 1/2 | 19,337 | 1/2 | 29,966 | 1/2 | 40,649 | 1/2 | 51,414 | 1/2 | 62,179 | 1/2 | 72,918 | 1/2 | 83,664 | 1/2 | 94,432 |
| 3/4 | 96 | 3/4 | 8,769 | 3/4 | 19,561 | 3/4 | 30,184 | 3/4 | 40,874 | 3/4 | 51,638 | 3/4 | 62,403 | 3/4 | 73,141 | 3/4 | 83,888 | 3/4 | 94,656 |
| 1 | 114 | 1 | 8,994 | 1 | 19,786 | 1 | 30,403 | 1 | 41,098 | 1 | 51,863 | 1 | 62,627 | 1 | 73,364 | 1 | 84,113 | 1 | 94,881 |
| 1/4 | 171 | 1/4 | 9,218 | 1/4 | 20,011 | 1/4 | 30,621 | 1/4 | 41,322 | 1/4 | 52,087 | 1/4 | 62,852 | 1/4 | 73,587 | 1/4 | 84,337 | 1/4 | 95,105 |
| 1/2 | 227 | 1/2 | 9,443 | 1/2 | 20,236 | 1/2 | 30,840 | 1/2 | 41,546 | 1/2 | 52,311 | 1/2 | 63,076 | 1/2 | 73,809 | 1/2 | 84,561 | 1/2 | 95,329 |
| 3/4 | 283 | 3/4 | 9,668 | 3/4 | 20,461 | 3/4 | 31,058 | 3/4 | 41,771 | 3/4 | 52,536 | 3/4 | 63,300 | 3/4 | 74,032 | 3/4 | 84,786 | 3/4 | 95,554 |
| 2 | 339 | 2 | 9,893 | 2 | 20,686 | 2 | 31,277 | 2 | 41,995 | 2 | 52,760 | 2 | 63,525 | 2 | 74,255 | 2 | 85,010 | 2 | 95,778 |
| 1/4 | 433 | 1/4 | 10,118 | 1/4 | 20,911 | 1/4 | 31,495 | 1/4 | 42,219 | 1/4 | 52,984 | 1/4 | 63,749 | 1/4 | 74,478 | 1/4 | 85,234 | 1/4 | 96,002 |
| 1/2 | 526 | 1/2 | 10,343 | 1/2 | 21,135 | 1/2 | 31,714 | 1/2 | 42,444 | 1/2 | 53,208 | 1/2 | 63,973 | 1/2 | 74,701 | 1/2 | 85,459 | 1/2 | 96,227 |
| 3/4 | 620 | 3/4 | 10,568 | 3/4 | 21,360 | 3/4 | 31,932 | 3/4 | 42,668 | 3/4 | 53,433 | 3/4 | 64,197 | 3/4 | 74,924 | 3/4 | 85,683 | 3/4 | 96,451 |
| 3 | 714 | 3 | 10,792 | 3 | 21,585 | 3 | 32,151 | 3 | 42,892 | 3 | 53,657 | 3 | 64,422 | 3 | 75,147 | 3 | 85,907 | 3 | 96,675 |
| 1/4 | 845 | 1/4 | 11,017 | 1/4 | 21,810 | 1/4 | 32,369 | 1/4 | 43,116 | 1/4 | 53,881 | 1/4 | 64,646 | 1/4 | 75,370 | 1/4 | 86,132 | 1/4 | 96,900 |
| 1/2 | 976 | 1/2 | 11,242 | 1/2 | 22,035 | 1/2 | 32,587 | 1/2 | 43,341 | 1/2 | 54,105 | 1/2 | 64,870 | 1/2 | 75,593 | 1/2 | 86,356 | 1/2 | 97,124 |
| 3/4 | 1,107 | 3/4 | 11,467 | 3/4 | 22,260 | 3/4 | 32,806 | 3/4 | 43,565 | 3/4 | 54,330 | 3/4 | 65,094 | 3/4 | 75,816 | 3/4 | 86,580 | 3/4 | 97,349 |
| 4 | 1,238 | 4 | 11,692 | 4 | 22,484 | 4 | 33,024 | 4 | 43,789 | 4 | 54,554 | 4 | 65,319 | 4 | 76,039 | 4 | 86,805 | 4 | 97,573 |
| 1/4 | 1,407 | 1/4 | 11,917 | 1/4 | 22,709 | 1/4 | 33,249 | 1/4 | 44,013 | 1/4 | 54,778 | 1/4 | 65,543 | 1/4 | 76,262 | 1/4 | 87,029 | 1/4 | 97,797 |
| 1/2 | 1,576 | 1/2 | 12,141 | 1/2 | 22,934 | 1/2 | 33,473 | 1/2 | 44,238 | 1/2 | 55,002 | 1/2 | 65,767 | 1/2 | 76,486 | 1/2 | 87,253 | 1/2 | 98,022 |
| 3/4 | 1,744 | 3/4 | 12,366 | 3/4 | 23,159 | 3/4 | 33,697 | 3/4 | 44,462 | 3/4 | 55,227 | 3/4 | 65,991 | 3/4 | 76,709 | 3/4 | 87,478 | 3/4 | 98,246 |
| 5 | 1,913 | 5 | 12,591 | 5 | 23,384 | 5 | 33,921 | 5 | 44,686 | 5 | 55,451 | 5 | 66,216 | 5 | 76,933 | 5 | 87,702 | 5 | 98,470 |
| 1/4 | 2,118 | 1/4 | 12,816 | 1/4 | 23,609 | 1/4 | 34,146 | 1/4 | 44,910 | 1/4 | 55,675 | 1/4 | 66,440 | 1/4 | 77,157 | 1/4 | 87,926 | 1/4 | 98,695 |
| 1/2 | 2,324 | 1/2 | 13,041 | 1/2 | 23,834 | 1/2 | 34,370 | 1/2 | 45,135 | 1/2 | 55,900 | 1/2 | 66,664 | 1/2 | 77,382 | 1/2 | 88,151 | 1/2 | 98,919 |
| 3/4 | 2,529 | 3/4 | 13,266 | 3/4 | 24,058 | 3/4 | 34,594 | 3/4 | 45,359 | 3/4 | 56,124 | 3/4 | 66,889 | 3/4 | 77,606 | 3/4 | 88,375 | 3/4 | 99,143 |
| 6 | 2,735 | 6 | 13,491 | 6 | 24,283 | 6 | 34,818 | 6 | 45,583 | 6 | 56,348 | 6 | 67,113 | 6 | 77,831 | 6 | 88,599 | 6 | 99,368 |
| 1/4 | 2,955 | 1/4 | 13,715 | 1/4 | 24,507 | 1/4 | 35,043 | 1/4 | 45,808 | 1/4 | 56,572 | 1/4 | 67,336 | 1/4 | 78,055 | 1/4 | 88,824 | 1/4 | 99,592 |
| 1/2 | 3,175 | 1/2 | 13,940 | 1/2 | 24,731 | 1/2 | 35,267 | 1/2 | 46,032 | 1/2 | 56,797 | 1/2 | 67,560 | 1/2 | 78,279 | 1/2 | 89,048 | 1/2 | 99,816 |
| 3/4 | 3,396 | 3/4 | 14,165 | 3/4 | 24,940 | 3/4 | 35,491 | 3/4 | 46,256 | 3/4 | 57,021 | 3/4 | 67,784 | 3/4 | 78,504 | 3/4 | 89,272 | 3/4 | 100,041 |
| 7 | 3,616 | 7 | 14,390 | 7 | 25,159 | 7 | 35,716 | 7 | 46,480 | 7 | 57,245 | 7 | 68,008 | 7 | 78,728 | 7 | 89,497 | 7 | 100,265 |
| 1/4 | 3,839 | 1/4 | 14,615 | 1/4 | 25,377 | 1/4 | 35,940 | 1/4 | 46,705 | 1/4 | 57,469 | 1/4 | 68,231 | 1/4 | 78,952 | 1/4 | 89,721 | 1/4 | 100,489 |
| 1/2 | 4,061 | 1/2 | 14,840 | 1/2 | 25,596 | 1/2 | 36,164 | 1/2 | 46,929 | 1/2 | 57,694 | 1/2 | 68,455 | 1/2 | 79,177 | 1/2 | 89,945 | 1/2 | 100,714 |
| 3/4 | 4,283 | 3/4 | 15,064 | 3/4 | 25,815 | 3/4 | 36,388 | 3/4 | 47,153 | 3/4 | 57,918 | 3/4 | 68,679 | 3/4 | 79,401 | 3/4 | 90,170 | 3/4 | 100,938 |
| 8 | 4,506 | 8 | 15,289 | 8 | 26,034 | 8 | 36,613 | 8 | 47,377 | 8 | 58,142 | 8 | 68,902 | 8 | 79,626 | 8 | 90,394 | 8 | 101,162 |
| 1/4 | 4,729 | 1/4 | 15,514 | 1/4 | 26,252 | 1/4 | 36,837 | 1/4 | 47,602 | 1/4 | 58,366 | 1/4 | 69,126 | 1/4 | 79,850 | 1/4 | 90,618 | 1/4 | 101,387 |
| 1/2 | 4,952 | 1/2 | 15,739 | 1/2 | 26,471 | 1/2 | 37,061 | 1/2 | 47,826 | 1/2 | 58,591 | 1/2 | 69,350 | 1/2 | 80,074 | 1/2 | 90,843 | 1/2 | 101,611 |
| 3/4 | 5,176 | 3/4 | 15,964 | 3/4 | 26,689 | 3/4 | 37,285 | 3/4 | 48,050 | 3/4 | 58,815 | 3/4 | 69,573 | 3/4 | 80,299 | 3/4 | 91,067 | 3/4 | 101,835 |
| 9 | 5,399 | 9 | 16,189 | 9 | 26,908 | 9 | 37,510 | 9 | 48,274 | 9 | 59,039 | 9 | 69,797 | 9 | 80,523 | 9 | 91,291 | 9 | 102,060 |
| 1/4 | 5,624 | 1/4 | 16,414 | 1/4 | 27,126 | 1/4 | 37,734 | 1/4 | 48,499 | 1/4 | 59,263 | 1/4 | 70,020 | 1/4 | 80,747 | 1/4 | 91,516 | 1/4 | 102,284 |
| 1/2 | 5,848 | 1/2 | 16,638 | 1/2 | 27,345 | 1/2 | 37,958 | 1/2 | 48,723 | 1/2 | 59,488 | 1/2 | 70,243 | 1/2 | 80,972 | 1/2 | 91,740 | 1/2 | 102,508 |
| 3/4 | 6,072 | 3/4 | 16,863 | 3/4 | 27,563 | 3/4 | 38,182 | 3/4 | 48,947 | 3/4 | 59,712 | 3/4 | 70,466 | 3/4 | 81,196 | 3/4 | 91,964 | 3/4 | 102,733 |
| 10 | 6,296 | 10 | 17,088 | 10 | 27,782 | 10 | 38,407 | 10 | 49,172 | 10 | 59,936 | 10 | 70,689 | 10 | 81,420 | 10 | 92,189 | 10 | 102,957 |
| 1/4 | 6,521 | 1/4 | 17,313 | 1/4 | 28,000 | 1/4 | 38,631 | 1/4 | 49,396 | 1/4 | 60,161 | 1/4 | 70,912 | 1/4 | 81,645 | 1/4 | 92,413 | 1/4 | 103,181 |
| 1/2 | 6,746 | 1/2 | 17,538 | 1/2 | 28,218 | 1/2 | 38,855 | 1/2 | 49,620 | 1/2 | 60,385 | 1/2 | 71,134 | 1/2 | 81,869 | 1/2 | 92,637 | 1/2 | 103,406 |
| 3/4 | 6,970 | 3/4 | 17,763 | 3/4 | 28,437 | 3/4 | 39,080 | 3/4 | 49,844 | 3/4 | 60,609 | 3/4 | 71,357 | 3/4 | 82,094 | 3/4 | 92,862 | 3/4 | 103,630 |
| 11 | 7,195 | 11 | 17,987 | 11 | 28,655 | 11 | 39,304 | 11 | 50,069 | 11 | 60,833 | 11 | 71,580 | 11 | 82,318 | 11 | 93,086 | 11 | 103,854 |
| 1/4 | 7,420 | 1/4 | 18,212 | 1/4 | 28,874 | 1/4 | 39,528 | 1/4 | 50,293 | 1/4 | 61,058 | 1/4 | 71,803 | 1/4 | 82,542 | 1/4 | 93,310 | 1/4 | 104,079 |
| 1/2 | 7,645 | 1/2 | 18,437 | 1/2 | 29,092 | 1/2 | 39,752 | 1/2 | 50,517 | 1/2 | 61,282 | 1/2 | 72,026 | 1/2 | 82,767 | 1/2 | 93,535 | 1/2 | 104,303 |
| 3/4 | 7,869 | 3/4 | 18,662 | 3/4 | 29,311 | 3/4 | 39,977 | 3/4 | 50,741 | 3/4 | 61,506 | 3/4 | 72,249 | 3/4 | 82,991 | 3/4 | 93,759 | 3/4 | 104,527 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 26'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 104,752 | 0 | 114,856 | 0 | 124,319 | 0 | 133,740 | 0 | 143,145 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 104,976 | 1/4 | 115,053 | 1/4 | 124,516 | 1/4 | 133,937 | 1/4 | 143,340 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 105,200 | 1/2 | 115,250 | 1/2 | 124,712 | 1/2 | 134,134 | 1/2 | 143,534 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 105,424 | 3/4 | 115,447 | 3/4 | 124,909 | 3/4 | 134,330 | 3/4 | 143,729 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 105,648 | 1 | 115,645 | 1 | 125,106 | 1 | 134,527 | 1 | 143,923 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 105,872 | 1/4 | 115,842 | 1/4 | 125,302 | 1/4 | 134,723 | 1/4 | 144,118 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 106,096 | 1/2 | 116,039 | 1/2 | 125,499 | 1/2 | 134,920 | 1/2 | 144,312 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 106,320 | 3/4 | 116,236 | 3/4 | 125,696 | 3/4 | 135,117 | 3/4 | 144,507 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 106,544 | 2 | 116,433 | 2 | 125,892 | 2 | 135,313 | 2 | 144,702 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 106,768 | 1/4 | 116,630 | 1/4 | 126,089 | 1/4 | 135,510 | 1/4 | 144,905 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 106,992 | 1/2 | 116,828 | 1/2 | 126,285 | 1/2 | 135,707 | 1/2 | 145,108 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 107,217 | 3/4 | 117,025 | 3/4 | 126,482 | 3/4 | 135,903 | 3/4 | 145,312 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 107,441 | 3 | 117,222 | 3 | 126,679 | 3 | 136,100 | 3 | 145,515 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 107,665 | 1/4 | 117,419 | 1/4 | 126,875 | 1/4 | 136,296 | 1/4 | 145,681 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 107,889 | 1/2 | 117,616 | 1/2 | 127,072 | 1/2 | 136,493 | 1/2 | 145,847 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 108,113 | 3/4 | 117,813 | 3/4 | 127,269 | 3/4 | 136,690 | 3/4 | 146,013 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 108,337 | 4 | 118,010 | 4 | 127,465 | 4 | 136,886 | 4 | 146,179 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 108,561 | 1/4 | 118,208 | 1/4 | 127,662 | 1/4 | 137,083 | 1/4 | 146,308 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 108,785 | 1/2 | 118,405 | 1/2 | 127,858 | 1/2 | 137,280 | 1/2 | 146,436 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 109,009 | 3/4 | 118,602 | 3/4 | 128,055 | 3/4 | 137,476 | 3/4 | 146,565 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 109,233 | 5 | 118,799 | 5 | 128,252 | 5 | 137,673 | 5 | 146,693 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 109,457 | 1/4 | 118,996 | 1/4 | 128,448 | 1/4 | 137,869 | 1/4 | 146,784 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 109,681 | 1/2 | 119,193 | 1/2 | 128,645 | 1/2 | 138,066 | 1/2 | 146,875 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 109,906 | 3/4 | 119,390 | 3/4 | 128,842 | 3/4 | 138,263 | 3/4 | 146,966 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 110,130 | 6 | 119,588 | 6 | 129,038 | 6 | 138,459 | 6 | 147,057 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 110,327 | 1/4 | 119,785 | 1/4 | 129,234 | 1/4 | 138,656 | 1/4 | 147,111 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 110,524 | 1/2 | 119,982 | 1/2 | 129,430 | 1/2 | 138,853 | 1/2 | 147,165 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 110,720 | 3/4 | 120,179 | 3/4 | 129,626 | 3/4 | 139,049 | 3/4 | 147,218 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 110,917 | 7 | 120,376 | 7 | 129,822 | 7 | 139,246 | 7 | 147,272 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 111,114 | 1/4 | 120,573 | 1/4 | 130,018 | 1/4 | 139,442 | 1/4 | 147,288 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 111,311 | 1/2 | 120,771 | 1/2 | 130,214 | 1/2 | 139,639 | 1/2 | 147,304 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 111,508 | 3/4 | 120,968 | 3/4 | 130,410 | 3/4 | 139,836 | 3/4 | 147,320 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 111,705 | 8 | 121,165 | 8 | 130,606 | 8 | 140,032 | 8 | 147,336 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 111,902 | 1/4 | 121,362 | 1/4 | 130,801 | 1/4 | 140,227 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 112,099 | 1/2 | 121,559 | 1/2 | 130,997 | 1/2 | 140,421 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 112,296 | 3/4 | 121,756 | 3/4 | 131,193 | 3/4 | 140,616 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 112,493 | 9 | 121,953 | 9 | 131,389 | 9 | 140,811 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 112,690 | 1/4 | 122,151 | 1/4 | 131,585 | 1/4 | 141,005 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 112,887 | 1/2 | 122,348 | 1/2 | 131,781 | 1/2 | 141,200 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 113,084 | 3/4 | 122,545 | 3/4 | 131,977 | 3/4 | 141,394 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 113,281 | 10 | 122,742 | 10 | 132,173 | 10 | 141,589 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 113,478 | 1/4 | 122,939 | 1/4 | 132,369 | 1/4 | 141,783 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 113,674 | 1/2 | 123,136 | 1/2 | 132,565 | 1/2 | 141,978 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 113,871 | 3/4 | 123,333 | 3/4 | 132,761 | 3/4 | 142,172 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 114,068 | 11 | 123,531 | 11 | 132,957 | 11 | 142,367 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 114,265 | 1/4 | 123,728 | 1/4 | 133,153 | 1/4 | 142,561 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 114,462 | 1/2 | 123,925 | 1/2 | 133,348 | 1/2 | 142,756 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 114,659 | 3/4 | 124,122 | 3/4 | 133,544 | 3/4 | 142,951 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2013 CL
CALCULATED: 08/20/2013 CL
PRINTED: 08/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "CBC 1366"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|
| 0 | 39 | 0 | 9,055 | 0 | 21,134 | 0 | 33,067 | 0 | 45,000 | 0 | 57,080 | 0 | 69,159 | 0 | 81,239 | 0 | 93,319 | 0 | 105,397 |
| 1/4 | 60 | 1/4 | 9,306 | 1/4 | 21,386 | 1/4 | 33,311 | 1/4 | 45,251 | 1/4 | 57,331 | 1/4 | 69,411 | 1/4 | 81,491 | 1/4 | 93,571 | 1/4 | 105,648 |
| 1/2 | 81 | 1/2 | 9,558 | 1/2 | 21,638 | 1/2 | 33,555 | 1/2 | 45,503 | 1/2 | 57,583 | 1/2 | 69,663 | 1/2 | 81,743 | 1/2 | 93,822 | 1/2 | 105,900 |
| 3/4 | 102 | 3/4 | 9,810 | 3/4 | 21,889 | 3/4 | 33,800 | 3/4 | 45,755 | 3/4 | 57,835 | 3/4 | 69,914 | 3/4 | 81,994 | 3/4 | 94,074 | 3/4 | 106,152 |
| 1 | 123 | 1 | 10,061 | 1 | 22,141 | 1 | 34,044 | 1 | 46,006 | 1 | 58,086 | 1 | 70,166 | 1 | 82,246 | 1 | 94,326 | 1 | 106,403 |
| 1/4 | 186 | 1/4 | 10,313 | 1/4 | 22,392 | 1/4 | 34,288 | 1/4 | 46,258 | 1/4 | 58,338 | 1/4 | 70,418 | 1/4 | 82,498 | 1/4 | 94,577 | 1/4 | 106,655 |
| 1/2 | 249 | 1/2 | 10,565 | 1/2 | 22,644 | 1/2 | 34,532 | 1/2 | 46,510 | 1/2 | 58,590 | 1/2 | 70,669 | 1/2 | 82,749 | 1/2 | 94,829 | 1/2 | 106,907 |
| 3/4 | 312 | 3/4 | 10,816 | 3/4 | 22,896 | 3/4 | 34,777 | 3/4 | 46,761 | 3/4 | 58,841 | 3/4 | 70,921 | 3/4 | 83,001 | 3/4 | 95,080 | 3/4 | 107,158 |
| 2 | 375 | 2 | 11,068 | 2 | 23,147 | 2 | 35,021 | 2 | 47,013 | 2 | 59,093 | 2 | 71,173 | 2 | 83,253 | 2 | 95,332 | 2 | 107,410 |
| 1/4 | 480 | 1/4 | 11,320 | 1/4 | 23,399 | 1/4 | 35,265 | 1/4 | 47,265 | 1/4 | 59,345 | 1/4 | 71,424 | 1/4 | 83,504 | 1/4 | 95,584 | 1/4 | 107,661 |
| 1/2 | 584 | 1/2 | 11,571 | 1/2 | 23,651 | 1/2 | 35,509 | 1/2 | 47,516 | 1/2 | 59,596 | 1/2 | 71,676 | 1/2 | 83,756 | 1/2 | 95,835 | 1/2 | 107,913 |
| 3/4 | 689 | 3/4 | 11,823 | 3/4 | 23,902 | 3/4 | 35,753 | 3/4 | 47,768 | 3/4 | 59,848 | 3/4 | 71,928 | 3/4 | 84,008 | 3/4 | 96,087 | 3/4 | 108,165 |
| 3 | 794 | 3 | 12,075 | 3 | 24,154 | 3 | 35,998 | 3 | 48,020 | 3 | 60,100 | 3 | 72,179 | 3 | 84,259 | 3 | 96,338 | 3 | 108,416 |
| 1/4 | 941 | 1/4 | 12,326 | 1/4 | 24,406 | 1/4 | 36,242 | 1/4 | 48,271 | 1/4 | 60,351 | 1/4 | 72,431 | 1/4 | 84,511 | 1/4 | 96,590 | 1/4 | 108,668 |
| 1/2 | 1,088 | 1/2 | 12,578 | 1/2 | 24,657 | 1/2 | 36,486 | 1/2 | 48,523 | 1/2 | 60,603 | 1/2 | 72,683 | 1/2 | 84,763 | 1/2 | 96,842 | 1/2 | 108,919 |
| 3/4 | 1,235 | 3/4 | 12,830 | 3/4 | 24,909 | 3/4 | 36,730 | 3/4 | 48,775 | 3/4 | 60,854 | 3/4 | 72,934 | 3/4 | 85,014 | 3/4 | 97,093 | 3/4 | 109,171 |
| 4 | 1,381 | 4 | 13,081 | 4 | 25,161 | 4 | 36,975 | 4 | 49,026 | 4 | 61,106 | 4 | 73,186 | 4 | 85,266 | 4 | 97,345 | 4 | 109,423 |
| 1/4 | 1,570 | 1/4 | 13,333 | 1/4 | 25,412 | 1/4 | 37,219 | 1/4 | 49,278 | 1/4 | 61,358 | 1/4 | 73,438 | 1/4 | 85,517 | 1/4 | 97,597 | 1/4 | 109,674 |
| 1/2 | 1,759 | 1/2 | 13,585 | 1/2 | 25,664 | 1/2 | 37,464 | 1/2 | 49,530 | 1/2 | 61,609 | 1/2 | 73,689 | 1/2 | 85,769 | 1/2 | 97,848 | 1/2 | 109,926 |
| 3/4 | 1,948 | 3/4 | 13,836 | 3/4 | 25,916 | 3/4 | 37,709 | 3/4 | 49,781 | 3/4 | 61,861 | 3/4 | 73,941 | 3/4 | 86,021 | 3/4 | 98,100 | 3/4 | 110,178 |
| 5 | 2,136 | 5 | 14,088 | 5 | 26,167 | 5 | 37,953 | 5 | 50,033 | 5 | 62,113 | 5 | 74,193 | 5 | 86,272 | 5 | 98,351 | 5 | 110,429 |
| 1/4 | 2,366 | 1/4 | 14,340 | 1/4 | 26,419 | 1/4 | 38,205 | 1/4 | 50,285 | 1/4 | 62,364 | 1/4 | 74,444 | 1/4 | 86,524 | 1/4 | 98,603 | 1/4 | 110,681 |
| 1/2 | 2,596 | 1/2 | 14,591 | 1/2 | 26,671 | 1/2 | 38,456 | 1/2 | 50,536 | 1/2 | 62,616 | 1/2 | 74,696 | 1/2 | 86,776 | 1/2 | 98,855 | 1/2 | 110,932 |
| 3/4 | 2,826 | 3/4 | 14,843 | 3/4 | 26,922 | 3/4 | 38,708 | 3/4 | 50,788 | 3/4 | 62,868 | 3/4 | 74,948 | 3/4 | 87,027 | 3/4 | 99,106 | 3/4 | 111,184 |
| 6 | 3,056 | 6 | 15,095 | 6 | 27,174 | 6 | 38,960 | 6 | 51,040 | 6 | 63,119 | 6 | 75,199 | 6 | 87,279 | 6 | 99,358 | 6 | 111,436 |
| 1/4 | 3,303 | 1/4 | 15,346 | 1/4 | 27,426 | 1/4 | 39,211 | 1/4 | 51,291 | 1/4 | 63,371 | 1/4 | 75,451 | 1/4 | 87,531 | 1/4 | 99,610 | 1/4 | 111,687 |
| 1/2 | 3,550 | 1/2 | 15,598 | 1/2 | 27,677 | 1/2 | 39,463 | 1/2 | 51,543 | 1/2 | 63,623 | 1/2 | 75,703 | 1/2 | 87,782 | 1/2 | 99,861 | 1/2 | 111,939 |
| 3/4 | 3,796 | 3/4 | 15,849 | 3/4 | 27,929 | 3/4 | 39,715 | 3/4 | 51,795 | 3/4 | 63,874 | 3/4 | 75,954 | 3/4 | 88,034 | 3/4 | 100,113 | 3/4 | 112,191 |
| 7 | 4,043 | 7 | 16,101 | 7 | 28,181 | 7 | 39,966 | 7 | 52,046 | 7 | 64,126 | 7 | 76,206 | 7 | 88,286 | 7 | 100,364 | 7 | 112,442 |
| 1/4 | 4,292 | 1/4 | 16,353 | 1/4 | 28,425 | 1/4 | 40,218 | 1/4 | 52,298 | 1/4 | 64,378 | 1/4 | 76,458 | 1/4 | 88,537 | 1/4 | 100,616 | 1/4 | 112,694 |
| 1/2 | 4,541 | 1/2 | 16,604 | 1/2 | 28,670 | 1/2 | 40,470 | 1/2 | 52,550 | 1/2 | 64,629 | 1/2 | 76,709 | 1/2 | 88,789 | 1/2 | 100,868 | 1/2 | 112,945 |
| 3/4 | 4,789 | 3/4 | 16,856 | 3/4 | 28,914 | 3/4 | 40,721 | 3/4 | 52,801 | 3/4 | 64,881 | 3/4 | 76,961 | 3/4 | 89,041 | 3/4 | 101,119 | 3/4 | 113,197 |
| 8 | 5,038 | 8 | 17,108 | 8 | 29,159 | 8 | 40,973 | 8 | 53,053 | 8 | 65,133 | 8 | 77,213 | 8 | 89,292 | 8 | 101,371 | 8 | 113,449 |
| 1/4 | 5,288 | 1/4 | 17,359 | 1/4 | 29,403 | 1/4 | 41,225 | 1/4 | 53,305 | 1/4 | 65,384 | 1/4 | 77,464 | 1/4 | 89,544 | 1/4 | 101,623 | 1/4 | 113,700 |
| 1/2 | 5,539 | 1/2 | 17,611 | 1/2 | 29,647 | 1/2 | 41,476 | 1/2 | 53,556 | 1/2 | 65,636 | 1/2 | 77,716 | 1/2 | 89,796 | 1/2 | 101,874 | 1/2 | 113,952 |
| 3/4 | 5,789 | 3/4 | 17,863 | 3/4 | 29,892 | 3/4 | 41,728 | 3/4 | 53,808 | 3/4 | 65,888 | 3/4 | 77,968 | 3/4 | 90,047 | 3/4 | 102,126 | 3/4 | 114,204 |
| 9 | 6,039 | 9 | 18,114 | 9 | 30,136 | 9 | 41,980 | 9 | 54,060 | 9 | 66,139 | 9 | 78,219 | 9 | 90,299 | 9 | 102,377 | 9 | 114,455 |
| 1/4 | 6,290 | 1/4 | 18,366 | 1/4 | 30,380 | 1/4 | 42,231 | 1/4 | 54,311 | 1/4 | 66,391 | 1/4 | 78,471 | 1/4 | 90,551 | 1/4 | 102,629 | 1/4 | 114,707 |
| 1/2 | 6,541 | 1/2 | 18,618 | 1/2 | 30,624 | 1/2 | 42,483 | 1/2 | 54,563 | 1/2 | 66,643 | 1/2 | 78,723 | 1/2 | 90,802 | 1/2 | 102,881 | 1/2 | 114,958 |
| 3/4 | 6,792 | 3/4 | 18,869 | 3/4 | 30,869 | 3/4 | 42,735 | 3/4 | 54,815 | 3/4 | 66,894 | 3/4 | 78,974 | 3/4 | 91,054 | 3/4 | 103,132 | 3/4 | 115,210 |
| 10 | 7,043 | 10 | 19,121 | 10 | 31,113 | 10 | 42,986 | 10 | 55,066 | 10 | 67,146 | 10 | 79,226 | 10 | 91,306 | 10 | 103,384 | 10 | 115,462 |
| 1/4 | 7,294 | 1/4 | 19,373 | 1/4 | 31,357 | 1/4 | 43,238 | 1/4 | 55,318 | 1/4 | 67,398 | 1/4 | 79,478 | 1/4 | 91,557 | 1/4 | 103,635 | 1/4 | 115,713 |
| 1/2 | 7,545 | 1/2 | 19,624 | 1/2 | 31,601 | 1/2 | 43,490 | 1/2 | 55,570 | 1/2 | 67,649 | 1/2 | 79,729 | 1/2 | 91,809 | 1/2 | 103,887 | 1/2 | 115,965 |
| 3/4 | 7,797 | 3/4 | 19,876 | 3/4 | 31,846 | 3/4 | 43,741 | 3/4 | 55,821 | 3/4 | 67,901 | 3/4 | 79,981 | 3/4 | 92,061 | 3/4 | 104,139 | 3/4 | 116,216 |
| 11 | 8,048 | 11 | 20,128 | 11 | 32,090 | 11 | 43,993 | 11 | 56,073 | 11 | 68,153 | 11 | 80,233 | 11 | 92,312 | 11 | 104,390 | 11 | 116,468 |
| 1/4 | 8,300 | 1/4 | 20,379 | 1/4 | 32,334 | 1/4 | 44,245 | 1/4 | 56,325 | 1/4 | 68,404 | 1/4 | 80,484 | 1/4 | 92,564 | 1/4 | 104,642 | 1/4 | 116,720 |
| 1/2 | 8,552 | 1/2 | 20,631 | 1/2 | 32,578 | 1/2 | 44,496 | 1/2 | 56,576 | 1/2 | 68,656 | 1/2 | 80,736 | 1/2 | 92,816 | 1/2 | 104,894 | 1/2 | 116,971 |
| 3/4 | 8,803 | 3/4 | 20,883 | 3/4 | 32,823 | 3/4 | 44,748 | 3/4 | 56,828 | 3/4 | 68,908 | 3/4 | 80,988 | 3/4 | 93,067 | 3/4 | 105,145 | 3/4 | 117,223 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 117,475 | 0 | 129,552 | 0 | 141,630 | 0 | 153,641 | 0 | 165,614 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 117,726 | 1/4 | 129,804 | 1/4 | 141,880 | 1/4 | 153,891 | 1/4 | 165,862 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 117,978 | 1/2 | 130,056 | 1/2 | 142,131 | 1/2 | 154,141 | 1/2 | 166,110 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 118,229 | 3/4 | 130,307 | 3/4 | 142,381 | 3/4 | 154,391 | 3/4 | 166,358 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 118,481 | 1 | 130,559 | 1 | 142,631 | 1 | 154,642 | 1 | 166,606 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 118,733 | 1/4 | 130,810 | 1/4 | 142,881 | 1/4 | 154,892 | 1/4 | 166,854 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 118,984 | 1/2 | 131,062 | 1/2 | 143,131 | 1/2 | 155,142 | 1/2 | 167,102 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 119,236 | 3/4 | 131,314 | 3/4 | 143,382 | 3/4 | 155,392 | 3/4 | 167,350 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 119,488 | 2 | 131,565 | 2 | 143,632 | 2 | 155,642 | 2 | 167,598 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 119,739 | 1/4 | 131,817 | 1/4 | 143,882 | 1/4 | 155,893 | 1/4 | 167,824 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 119,991 | 1/2 | 132,069 | 1/2 | 144,132 | 1/2 | 156,143 | 1/2 | 168,051 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 120,242 | 3/4 | 132,320 | 3/4 | 144,382 | 3/4 | 156,393 | 3/4 | 168,278 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 120,494 | 3 | 132,572 | 3 | 144,633 | 3 | 156,643 | 3 | 168,505 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 120,746 | 1/4 | 132,823 | 1/4 | 144,883 | 1/4 | 156,894 | 1/4 | 168,690 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 120,997 | 1/2 | 133,075 | 1/2 | 145,133 | 1/2 | 157,144 | 1/2 | 168,875 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 121,249 | 3/4 | 133,327 | 3/4 | 145,383 | 3/4 | 157,394 | 3/4 | 169,060 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 121,500 | 4 | 133,578 | 4 | 145,634 | 4 | 157,644 | 4 | 169,245 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 121,752 | 1/4 | 133,830 | 1/4 | 145,884 | 1/4 | 157,894 | 1/4 | 169,388 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 122,004 | 1/2 | 134,081 | 1/2 | 146,134 | 1/2 | 158,145 | 1/2 | 169,531 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 122,255 | 3/4 | 134,333 | 3/4 | 146,384 | 3/4 | 158,395 | 3/4 | 169,674 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 122,507 | 5 | 134,585 | 5 | 146,634 | 5 | 158,645 | 5 | 169,817 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 122,759 | 1/4 | 134,836 | 1/4 | 146,885 | 1/4 | 158,895 | 1/4 | 169,919 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 123,010 | 1/2 | 135,088 | 1/2 | 147,135 | 1/2 | 159,146 | 1/2 | 170,020 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 123,262 | 3/4 | 135,340 | 3/4 | 147,385 | 3/4 | 159,396 | 3/4 | 170,121 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 123,513 | 6 | 135,591 | 6 | 147,635 | 6 | 159,646 | 6 | 170,222 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 123,765 | 1/4 | 135,843 | 1/4 | 147,886 | 1/4 | 159,896 | 1/4 | 170,281 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 124,017 | 1/2 | 136,094 | 1/2 | 148,136 | 1/2 | 160,146 | 1/2 | 170,340 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 124,268 | 3/4 | 136,346 | 3/4 | 148,386 | 3/4 | 160,397 | 3/4 | 170,399 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 124,520 | 7 | 136,598 | 7 | 148,636 | 7 | 160,647 | 7 | 170,459 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 124,772 | 1/4 | 136,849 | 1/4 | 148,886 | 1/4 | 160,897 | 1/4 | 170,476 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 125,023 | 1/2 | 137,101 | 1/2 | 149,137 | 1/2 | 161,147 | 1/2 | 170,493 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 125,275 | 3/4 | 137,353 | 3/4 | 149,387 | 3/4 | 161,398 | 3/4 | 170,510 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 125,526 | 8 | 137,604 | 8 | 149,637 | 8 | 161,648 | 8 | 170,527 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 125,778 | 1/4 | 137,856 | 1/4 | 149,887 | 1/4 | 161,896 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 126,030 | 1/2 | 138,107 | 1/2 | 150,138 | 1/2 | 162,144 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 126,281 | 3/4 | 138,359 | 3/4 | 150,388 | 3/4 | 162,391 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 126,533 | 9 | 138,611 | 9 | 150,638 | 9 | 162,639 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 126,784 | 1/4 | 138,862 | 1/4 | 150,888 | 1/4 | 162,887 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 127,036 | 1/2 | 139,114 | 1/2 | 151,138 | 1/2 | 163,135 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 127,288 | 3/4 | 139,365 | 3/4 | 151,389 | 3/4 | 163,383 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 127,539 | 10 | 139,617 | 10 | 151,639 | 10 | 163,631 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 127,791 | 1/4 | 139,869 | 1/4 | 151,889 | 1/4 | 163,879 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 128,043 | 1/2 | 140,120 | 1/2 | 152,139 | 1/2 | 164,127 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 128,294 | 3/4 | 140,372 | 3/4 | 152,390 | 3/4 | 164,375 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 128,546 | 11 | 140,624 | 11 | 152,640 | 11 | 164,623 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 128,797 | 1/4 | 140,875 | 1/4 | 152,890 | 1/4 | 164,871 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 129,049 | 1/2 | 141,127 | 1/2 | 153,140 | 1/2 | 165,118 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 129,301 | 3/4 | 141,378 | 3/4 | 153,390 | 3/4 | 165,366 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2013 CL
CALCULATED: 08/20/2013 CL
PRINTED: 08/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "CBC 1366"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|
| 0 | 39 | 0 | 8,049 | 0 | 18,781 | 0 | 29,499 | 0 | 40,219 | 0 | 50,952 | 0 | 61,684 | 0 | 72,416 | 0 | 83,148 | 0 | 93,879 |
| 1/4 | 58 | 1/4 | 8,273 | 1/4 | 19,004 | 1/4 | 29,721 | 1/4 | 40,443 | 1/4 | 51,175 | 1/4 | 61,907 | 1/4 | 72,640 | 1/4 | 83,372 | 1/4 | 94,102 |
| 1/2 | 77 | 1/2 | 8,496 | 1/2 | 19,228 | 1/2 | 29,944 | 1/2 | 40,667 | 1/2 | 51,399 | 1/2 | 62,131 | 1/2 | 72,863 | 1/2 | 83,595 | 1/2 | 94,326 |
| 3/4 | 95 | 3/4 | 8,720 | 3/4 | 19,452 | 3/4 | 30,167 | 3/4 | 40,890 | 3/4 | 51,622 | 3/4 | 62,355 | 3/4 | 73,087 | 3/4 | 83,819 | 3/4 | 94,549 |
| 1 | 114 | 1 | 8,943 | 1 | 19,675 | 1 | 30,390 | 1 | 41,114 | 1 | 51,846 | 1 | 62,578 | 1 | 73,310 | 1 | 84,043 | 1 | 94,773 |
| 1/4 | 170 | 1/4 | 9,167 | 1/4 | 19,899 | 1/4 | 30,613 | 1/4 | 41,337 | 1/4 | 52,070 | 1/4 | 62,802 | 1/4 | 73,534 | 1/4 | 84,266 | 1/4 | 94,997 |
| 1/2 | 226 | 1/2 | 9,391 | 1/2 | 20,122 | 1/2 | 30,836 | 1/2 | 41,561 | 1/2 | 52,293 | 1/2 | 63,025 | 1/2 | 73,758 | 1/2 | 84,490 | 1/2 | 95,220 |
| 3/4 | 282 | 3/4 | 9,614 | 3/4 | 20,346 | 3/4 | 31,059 | 3/4 | 41,784 | 3/4 | 52,517 | 3/4 | 63,249 | 3/4 | 73,981 | 3/4 | 84,713 | 3/4 | 95,444 |
| 2 | 337 | 2 | 9,838 | 2 | 20,570 | 2 | 31,282 | 2 | 42,008 | 2 | 52,740 | 2 | 63,473 | 2 | 74,205 | 2 | 84,937 | 2 | 95,667 |
| 1/4 | 431 | 1/4 | 10,061 | 1/4 | 20,793 | 1/4 | 31,504 | 1/4 | 42,232 | 1/4 | 52,964 | 1/4 | 63,696 | 1/4 | 74,428 | 1/4 | 85,160 | 1/4 | 95,891 |
| 1/2 | 524 | 1/2 | 10,285 | 1/2 | 21,017 | 1/2 | 31,727 | 1/2 | 42,455 | 1/2 | 53,187 | 1/2 | 63,920 | 1/2 | 74,652 | 1/2 | 85,384 | 1/2 | 96,114 |
| 3/4 | 617 | 3/4 | 10,508 | 3/4 | 21,240 | 3/4 | 31,950 | 3/4 | 42,679 | 3/4 | 53,411 | 3/4 | 64,143 | 3/4 | 74,876 | 3/4 | 85,607 | 3/4 | 96,338 |
| 3 | 710 | 3 | 10,732 | 3 | 21,464 | 3 | 32,173 | 3 | 42,902 | 3 | 53,635 | 3 | 64,367 | 3 | 75,099 | 3 | 85,831 | 3 | 96,561 |
| 1/4 | 840 | 1/4 | 10,956 | 1/4 | 21,687 | 1/4 | 32,396 | 1/4 | 43,126 | 1/4 | 53,858 | 1/4 | 64,591 | 1/4 | 75,323 | 1/4 | 86,055 | 1/4 | 96,785 |
| 1/2 | 971 | 1/2 | 11,179 | 1/2 | 21,911 | 1/2 | 32,619 | 1/2 | 43,350 | 1/2 | 54,082 | 1/2 | 64,814 | 1/2 | 75,546 | 1/2 | 86,278 | 1/2 | 97,009 |
| 3/4 | 1,101 | 3/4 | 11,403 | 3/4 | 22,135 | 3/4 | 32,842 | 3/4 | 43,573 | 3/4 | 54,305 | 3/4 | 65,038 | 3/4 | 75,770 | 3/4 | 86,502 | 3/4 | 97,232 |
| 4 | 1,232 | 4 | 11,626 | 4 | 22,358 | 4 | 33,064 | 4 | 43,797 | 4 | 54,529 | 4 | 65,261 | 4 | 75,994 | 4 | 86,725 | 4 | 97,456 |
| 1/4 | 1,399 | 1/4 | 11,850 | 1/4 | 22,582 | 1/4 | 33,288 | 1/4 | 44,020 | 1/4 | 54,753 | 1/4 | 65,485 | 1/4 | 76,217 | 1/4 | 86,949 | 1/4 | 97,679 |
| 1/2 | 1,567 | 1/2 | 12,074 | 1/2 | 22,805 | 1/2 | 33,512 | 1/2 | 44,244 | 1/2 | 54,976 | 1/2 | 65,708 | 1/2 | 76,441 | 1/2 | 87,172 | 1/2 | 97,903 |
| 3/4 | 1,735 | 3/4 | 12,297 | 3/4 | 23,029 | 3/4 | 33,735 | 3/4 | 44,468 | 3/4 | 55,200 | 3/4 | 65,932 | 3/4 | 76,664 | 3/4 | 87,396 | 3/4 | 98,126 |
| 5 | 1,902 | 5 | 12,521 | 5 | 23,253 | 5 | 33,959 | 5 | 44,691 | 5 | 55,423 | 5 | 66,156 | 5 | 76,888 | 5 | 87,619 | 5 | 98,350 |
| 1/4 | 2,107 | 1/4 | 12,744 | 1/4 | 23,476 | 1/4 | 34,182 | 1/4 | 44,915 | 1/4 | 55,647 | 1/4 | 66,379 | 1/4 | 77,111 | 1/4 | 87,843 | 1/4 | 98,573 |
| 1/2 | 2,311 | 1/2 | 12,968 | 1/2 | 23,700 | 1/2 | 34,406 | 1/2 | 45,138 | 1/2 | 55,871 | 1/2 | 66,603 | 1/2 | 77,335 | 1/2 | 88,066 | 1/2 | 98,797 |
| 3/4 | 2,515 | 3/4 | 13,191 | 3/4 | 23,923 | 3/4 | 34,630 | 3/4 | 45,362 | 3/4 | 56,094 | 3/4 | 66,826 | 3/4 | 77,559 | 3/4 | 88,290 | 3/4 | 99,020 |
| 6 | 2,720 | 6 | 13,415 | 6 | 24,147 | 6 | 34,853 | 6 | 45,585 | 6 | 56,318 | 6 | 67,050 | 6 | 77,782 | 6 | 88,514 | 6 | 99,244 |
| 1/4 | 2,939 | 1/4 | 13,639 | 1/4 | 24,370 | 1/4 | 35,077 | 1/4 | 45,809 | 1/4 | 56,541 | 1/4 | 67,274 | 1/4 | 78,006 | 1/4 | 88,737 | 1/4 | 99,468 |
| 1/2 | 3,158 | 1/2 | 13,862 | 1/2 | 24,593 | 1/2 | 35,300 | 1/2 | 46,033 | 1/2 | 56,765 | 1/2 | 67,497 | 1/2 | 78,229 | 1/2 | 88,961 | 1/2 | 99,691 |
| 3/4 | 3,377 | 3/4 | 14,086 | 3/4 | 24,817 | 3/4 | 35,524 | 3/4 | 46,256 | 3/4 | 56,988 | 3/4 | 67,721 | 3/4 | 78,453 | 3/4 | 89,184 | 3/4 | 99,915 |
| 7 | 3,596 | 7 | 14,309 | 7 | 25,040 | 7 | 35,748 | 7 | 46,480 | 7 | 57,212 | 7 | 67,944 | 7 | 78,677 | 7 | 89,408 | 7 | 100,138 |
| 1/4 | 3,817 | 1/4 | 14,533 | 1/4 | 25,263 | 1/4 | 35,971 | 1/4 | 46,703 | 1/4 | 57,436 | 1/4 | 68,168 | 1/4 | 78,900 | 1/4 | 89,631 | 1/4 | 100,362 |
| 1/2 | 4,039 | 1/2 | 14,756 | 1/2 | 25,486 | 1/2 | 36,195 | 1/2 | 46,927 | 1/2 | 57,659 | 1/2 | 68,392 | 1/2 | 79,124 | 1/2 | 89,855 | 1/2 | 100,585 |
| 3/4 | 4,260 | 3/4 | 14,980 | 3/4 | 25,709 | 3/4 | 36,418 | 3/4 | 47,151 | 3/4 | 57,883 | 3/4 | 68,615 | 3/4 | 79,347 | 3/4 | 90,078 | 3/4 | 100,809 |
| 8 | 4,481 | 8 | 15,204 | 8 | 25,933 | 8 | 36,642 | 8 | 47,374 | 8 | 58,106 | 8 | 68,839 | 8 | 79,571 | 8 | 90,302 | 8 | 101,032 |
| 1/4 | 4,703 | 1/4 | 15,427 | 1/4 | 26,156 | 1/4 | 36,865 | 1/4 | 47,598 | 1/4 | 58,330 | 1/4 | 69,062 | 1/4 | 79,795 | 1/4 | 90,526 | 1/4 | 101,256 |
| 1/2 | 4,925 | 1/2 | 15,651 | 1/2 | 26,378 | 1/2 | 37,089 | 1/2 | 47,821 | 1/2 | 58,554 | 1/2 | 69,286 | 1/2 | 80,018 | 1/2 | 90,749 | 1/2 | 101,480 |
| 3/4 | 5,147 | 3/4 | 15,874 | 3/4 | 26,601 | 3/4 | 37,313 | 3/4 | 48,045 | 3/4 | 58,777 | 3/4 | 69,509 | 3/4 | 80,242 | 3/4 | 90,973 | 3/4 | 101,703 |
| 9 | 5,370 | 9 | 16,098 | 9 | 26,824 | 9 | 37,536 | 9 | 48,269 | 9 | 59,001 | 9 | 69,733 | 9 | 80,465 | 9 | 91,196 | 9 | 101,927 |
| 1/4 | 5,592 | 1/4 | 16,322 | 1/4 | 27,047 | 1/4 | 37,760 | 1/4 | 48,492 | 1/4 | 59,224 | 1/4 | 69,957 | 1/4 | 80,689 | 1/4 | 91,420 | 1/4 | 102,150 |
| 1/2 | 5,815 | 1/2 | 16,545 | 1/2 | 27,270 | 1/2 | 37,983 | 1/2 | 48,716 | 1/2 | 59,448 | 1/2 | 70,180 | 1/2 | 80,912 | 1/2 | 91,643 | 1/2 | 102,374 |
| 3/4 | 6,038 | 3/4 | 16,769 | 3/4 | 27,493 | 3/4 | 38,207 | 3/4 | 48,939 | 3/4 | 59,672 | 3/4 | 70,404 | 3/4 | 81,136 | 3/4 | 91,867 | 3/4 | 102,597 |
| 10 | 6,261 | 10 | 16,992 | 10 | 27,716 | 10 | 38,431 | 10 | 49,163 | 10 | 59,895 | 10 | 70,627 | 10 | 81,360 | 10 | 92,090 | 10 | 102,821 |
| 1/4 | 6,485 | 1/4 | 17,216 | 1/4 | 27,938 | 1/4 | 38,654 | 1/4 | 49,386 | 1/4 | 60,119 | 1/4 | 70,851 | 1/4 | 81,583 | 1/4 | 92,314 | 1/4 | 103,044 |
| 1/2 | 6,708 | 1/2 | 17,439 | 1/2 | 28,161 | 1/2 | 38,878 | 1/2 | 49,610 | 1/2 | 60,342 | 1/2 | 71,075 | 1/2 | 81,807 | 1/2 | 92,538 | 1/2 | 103,268 |
| 3/4 | 6,931 | 3/4 | 17,663 | 3/4 | 28,384 | 3/4 | 39,101 | 3/4 | 49,834 | 3/4 | 60,566 | 3/4 | 71,298 | 3/4 | 82,030 | 3/4 | 92,761 | 3/4 | 103,492 |
| 11 | 7,155 | 11 | 17,887 | 11 | 28,607 | 11 | 39,325 | 11 | 50,057 | 11 | 60,789 | 11 | 71,522 | 11 | 82,254 | 11 | 92,985 | 11 | 103,715 |
| 1/4 | 7,378 | 1/4 | 18,110 | 1/4 | 28,830 | 1/4 | 39,549 | 1/4 | 50,281 | 1/4 | 61,013 | 1/4 | 71,745 | 1/4 | 82,478 | 1/4 | 93,208 | 1/4 | 103,939 |
| 1/2 | 7,602 | 1/2 | 18,334 | 1/2 | 29,053 | 1/2 | 39,772 | 1/2 | 50,504 | 1/2 | 61,237 | 1/2 | 71,969 | 1/2 | 82,701 | 1/2 | 93,432 | 1/2 | 104,162 |
| 3/4 | 7,826 | 3/4 | 18,557 | 3/4 | 29,276 | 3/4 | 39,996 | 3/4 | 50,728 | 3/4 | 61,460 | 3/4 | 72,193 | 3/4 | 82,925 | 3/4 | 93,655 | 3/4 | 104,386 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 104,609 | 0 | 115,340 | 0 | 126,070 | 0 | 136,742 | 0 | 147,380 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 104,833 | 1/4 | 115,563 | 1/4 | 126,292 | 1/4 | 136,964 | 1/4 | 147,601 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 105,056 | 1/2 | 115,787 | 1/2 | 126,515 | 1/2 | 137,186 | 1/2 | 147,821 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 105,280 | 3/4 | 116,010 | 3/4 | 126,737 | 3/4 | 137,409 | 3/4 | 148,041 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 105,503 | 1 | 116,234 | 1 | 126,959 | 1 | 137,631 | 1 | 148,262 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 105,727 | 1/4 | 116,457 | 1/4 | 127,182 | 1/4 | 137,853 | 1/4 | 148,482 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 105,951 | 1/2 | 116,681 | 1/2 | 127,404 | 1/2 | 138,076 | 1/2 | 148,702 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 106,174 | 3/4 | 116,905 | 3/4 | 127,626 | 3/4 | 138,298 | 3/4 | 148,922 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 106,398 | 2 | 117,128 | 2 | 127,849 | 2 | 138,520 | 2 | 149,143 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 106,621 | 1/4 | 117,352 | 1/4 | 128,071 | 1/4 | 138,743 | 1/4 | 149,344 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 106,845 | 1/2 | 117,575 | 1/2 | 128,293 | 1/2 | 138,965 | 1/2 | 149,546 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 107,068 | 3/4 | 117,799 | 3/4 | 128,516 | 3/4 | 139,187 | 3/4 | 149,748 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 107,292 | 3 | 118,022 | 3 | 128,738 | 3 | 139,410 | 3 | 149,949 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 107,515 | 1/4 | 118,246 | 1/4 | 128,960 | 1/4 | 139,632 | 1/4 | 150,114 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 107,739 | 1/2 | 118,469 | 1/2 | 129,183 | 1/2 | 139,854 | 1/2 | 150,278 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 107,963 | 3/4 | 118,693 | 3/4 | 129,405 | 3/4 | 140,077 | 3/4 | 150,442 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 108,186 | 4 | 118,917 | 4 | 129,627 | 4 | 140,299 | 4 | 150,607 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 108,410 | 1/4 | 119,140 | 1/4 | 129,850 | 1/4 | 140,521 | 1/4 | 150,734 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 108,633 | 1/2 | 119,364 | 1/2 | 130,072 | 1/2 | 140,744 | 1/2 | 150,861 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 108,857 | 3/4 | 119,587 | 3/4 | 130,294 | 3/4 | 140,966 | 3/4 | 150,988 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 109,080 | 5 | 119,811 | 5 | 130,517 | 5 | 141,188 | 5 | 151,115 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 109,304 | 1/4 | 120,034 | 1/4 | 130,739 | 1/4 | 141,411 | 1/4 | 151,205 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 109,527 | 1/2 | 120,258 | 1/2 | 130,961 | 1/2 | 141,633 | 1/2 | 151,295 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 109,751 | 3/4 | 120,481 | 3/4 | 131,184 | 3/4 | 141,855 | 3/4 | 151,385 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 109,974 | 6 | 120,705 | 6 | 131,406 | 6 | 142,078 | 6 | 151,475 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 110,198 | 1/4 | 120,928 | 1/4 | 131,628 | 1/4 | 142,300 | 1/4 | 151,527 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 110,422 | 1/2 | 121,152 | 1/2 | 131,851 | 1/2 | 142,522 | 1/2 | 151,580 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 110,645 | 3/4 | 121,376 | 3/4 | 132,073 | 3/4 | 142,745 | 3/4 | 151,632 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 110,869 | 7 | 121,599 | 7 | 132,295 | 7 | 142,967 | 7 | 151,685 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 111,092 | 1/4 | 121,823 | 1/4 | 132,518 | 1/4 | 143,189 | 1/4 | 151,700 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 111,316 | 1/2 | 122,046 | 1/2 | 132,740 | 1/2 | 143,412 | 1/2 | 151,715 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 111,539 | 3/4 | 122,270 | 3/4 | 132,962 | 3/4 | 143,634 | 3/4 | 151,731 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 111,763 | 8 | 122,493 | 8 | 133,185 | 8 | 143,856 | 8 | 151,746 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 111,986 | 1/4 | 122,717 | 1/4 | 133,407 | 1/4 | 144,076 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 112,210 | 1/2 | 122,940 | 1/2 | 133,629 | 1/2 | 144,297 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 112,434 | 3/4 | 123,164 | 3/4 | 133,852 | 3/4 | 144,517 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 112,657 | 9 | 123,388 | 9 | 134,074 | 9 | 144,737 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 112,881 | 1/4 | 123,611 | 1/4 | 134,296 | 1/4 | 144,958 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 113,104 | 1/2 | 123,835 | 1/2 | 134,519 | 1/2 | 145,178 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 113,328 | 3/4 | 124,058 | 3/4 | 134,741 | 3/4 | 145,398 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 113,551 | 10 | 124,282 | 10 | 134,963 | 10 | 145,618 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 113,775 | 1/4 | 124,505 | 1/4 | 135,185 | 1/4 | 145,839 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 113,998 | 1/2 | 124,729 | 1/2 | 135,408 | 1/2 | 146,059 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 114,222 | 3/4 | 124,952 | 3/4 | 135,630 | 3/4 | 146,279 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 114,445 | 11 | 125,176 | 11 | 135,852 | 11 | 146,499 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 114,669 | 1/4 | 125,399 | 1/4 | 136,075 | 1/4 | 146,720 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 114,893 | 1/2 | 125,623 | 1/2 | 136,297 | 1/2 | 146,940 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 115,116 | 3/4 | 125,847 | 3/4 | 136,519 | 3/4 | 147,160 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2013 CL
CALCULATED: 08/20/2013 CL
PRINTED: 08/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "CBC 1366"

ULLAGE TRIM TABLE

| | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/4 | 00-1/4 | - 00-1/4 | 00-1/4 |
| 2 CENTER | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/4 | 00-1/4 |
| 3 CENTER | - 00-1/4 | 00-1/4 | - 00-1/2 | 00-1/2 | - 00-3/4 | 00-3/4 | - 00-7/8 | 00-7/8 | - 01-1/8 | 01-1/8 | - 01-3/8 | 01-3/8 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 161'-09"

August 20, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|-------|-----|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| 0 | | 0 | | 0 | | 0 | 140,616 | 0 | 131,193 | 0 | 121,756 | 0 | 112,296 | 0 | 101,835 | 0 | 91,067 | 0 | 80,299 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 140,421 | 1/4 | 130,997 | 1/4 | 121,559 | 1/4 | 112,099 | 1/4 | 101,611 | 1/4 | 90,843 | 1/4 | 80,074 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 140,227 | 1/2 | 130,801 | 1/2 | 121,362 | 1/2 | 111,902 | 1/2 | 101,387 | 1/2 | 90,618 | 1/2 | 79,850 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 147,336 | 3/4 | 140,032 | 3/4 | 130,606 | 3/4 | 121,165 | 3/4 | 111,705 | 3/4 | 101,162 | 3/4 | 90,394 |
| 1 | | 1 | | 1 | | 1 | 147,320 | 1 | 139,836 | 1 | 130,410 | 1 | 120,968 | 1 | 111,508 | 1 | 100,938 | 1 | 90,170 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 147,304 | 1/4 | 139,639 | 1/4 | 130,214 | 1/4 | 120,771 | 1/4 | 111,311 | 1/4 | 100,714 | 1/4 | 89,945 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 147,288 | 1/2 | 139,442 | 1/2 | 130,018 | 1/2 | 120,573 | 1/2 | 111,114 | 1/2 | 100,489 | 1/2 | 89,721 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 147,272 | 3/4 | 139,246 | 3/4 | 129,822 | 3/4 | 120,376 | 3/4 | 110,917 | 3/4 | 100,265 | 3/4 | 89,497 |
| 2 | | 2 | | 2 | | 2 | 147,218 | 2 | 139,049 | 2 | 129,626 | 2 | 120,179 | 2 | 110,720 | 2 | 100,041 | 2 | 89,272 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 147,165 | 1/4 | 138,853 | 1/4 | 129,430 | 1/4 | 119,982 | 1/4 | 110,524 | 1/4 | 99,816 | 1/4 | 89,048 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 147,111 | 1/2 | 138,656 | 1/2 | 129,234 | 1/2 | 119,785 | 1/2 | 110,327 | 1/2 | 99,592 | 1/2 | 88,824 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 147,057 | 3/4 | 138,459 | 3/4 | 129,038 | 3/4 | 119,588 | 3/4 | 110,130 | 3/4 | 99,368 | 3/4 | 88,599 |
| 3 | | 3 | | 3 | | 3 | 146,966 | 3 | 138,263 | 3 | 128,842 | 3 | 119,390 | 3 | 109,906 | 3 | 99,143 | 3 | 88,375 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 146,875 | 1/4 | 138,066 | 1/4 | 128,645 | 1/4 | 119,193 | 1/4 | 109,681 | 1/4 | 98,919 | 1/4 | 88,151 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 146,784 | 1/2 | 137,869 | 1/2 | 128,448 | 1/2 | 118,996 | 1/2 | 109,457 | 1/2 | 98,695 | 1/2 | 87,926 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 146,693 | 3/4 | 137,673 | 3/4 | 128,252 | 3/4 | 118,799 | 3/4 | 109,233 | 3/4 | 98,470 | 3/4 | 87,702 |
| 4 | | 4 | | 4 | | 4 | 146,565 | 4 | 137,476 | 4 | 128,055 | 4 | 118,602 | 4 | 109,009 | 4 | 98,246 | 4 | 87,478 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 146,436 | 1/4 | 137,280 | 1/4 | 127,858 | 1/4 | 118,405 | 1/4 | 108,785 | 1/4 | 98,022 | 1/4 | 87,253 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 146,308 | 1/2 | 137,083 | 1/2 | 127,662 | 1/2 | 118,208 | 1/2 | 108,561 | 1/2 | 97,797 | 1/2 | 87,029 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 146,179 | 3/4 | 136,886 | 3/4 | 127,465 | 3/4 | 118,010 | 3/4 | 108,337 | 3/4 | 97,573 | 3/4 | 86,805 |
| 5 | | 5 | | 5 | | 5 | 146,013 | 5 | 136,690 | 5 | 127,269 | 5 | 117,813 | 5 | 108,113 | 5 | 97,349 | 5 | 86,580 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 145,847 | 1/4 | 136,493 | 1/4 | 127,072 | 1/4 | 117,616 | 1/4 | 107,889 | 1/4 | 97,124 | 1/4 | 86,356 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 145,681 | 1/2 | 136,296 | 1/2 | 126,875 | 1/2 | 117,419 | 1/2 | 107,665 | 1/2 | 96,900 | 1/2 | 86,132 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 145,515 | 3/4 | 136,100 | 3/4 | 126,679 | 3/4 | 117,222 | 3/4 | 107,441 | 3/4 | 96,675 | 3/4 | 85,907 |
| 6 | | 6 | | 6 | | 6 | 145,312 | 6 | 135,903 | 6 | 126,482 | 6 | 117,025 | 6 | 107,217 | 6 | 96,451 | 6 | 85,683 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 145,108 | 1/4 | 135,707 | 1/4 | 126,285 | 1/4 | 116,828 | 1/4 | 106,992 | 1/4 | 96,227 | 1/4 | 85,459 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 144,905 | 1/2 | 135,510 | 1/2 | 126,089 | 1/2 | 116,630 | 1/2 | 106,768 | 1/2 | 96,002 | 1/2 | 85,234 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 144,702 | 3/4 | 135,313 | 3/4 | 125,892 | 3/4 | 116,433 | 3/4 | 106,544 | 3/4 | 95,778 | 3/4 | 85,010 |
| 7 | | 7 | | 7 | | 7 | 144,507 | 7 | 135,117 | 7 | 125,696 | 7 | 116,236 | 7 | 106,320 | 7 | 95,554 | 7 | 84,786 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 144,312 | 1/4 | 134,920 | 1/4 | 125,499 | 1/4 | 116,039 | 1/4 | 106,096 | 1/4 | 95,329 | 1/4 | 84,561 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 144,118 | 1/2 | 134,723 | 1/2 | 125,302 | 1/2 | 115,842 | 1/2 | 105,872 | 1/2 | 95,105 | 1/2 | 84,337 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 143,923 | 3/4 | 134,527 | 3/4 | 125,106 | 3/4 | 115,645 | 3/4 | 105,648 | 3/4 | 94,881 | 3/4 | 84,113 |
| 8 | | 8 | | 8 | | 8 | 143,729 | 8 | 134,330 | 8 | 124,909 | 8 | 115,447 | 8 | 105,424 | 8 | 94,656 | 8 | 83,888 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 143,534 | 1/4 | 134,134 | 1/4 | 124,712 | 1/4 | 115,250 | 1/4 | 105,200 | 1/4 | 94,432 | 1/4 | 83,664 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 143,340 | 1/2 | 133,937 | 1/2 | 124,516 | 1/2 | 115,053 | 1/2 | 104,976 | 1/2 | 94,208 | 1/2 | 83,440 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 143,145 | 3/4 | 133,740 | 3/4 | 124,319 | 3/4 | 114,856 | 3/4 | 104,752 | 3/4 | 93,983 | 3/4 | 83,215 |
| 9 | | 9 | | 9 | | 9 | 142,951 | 9 | 133,544 | 9 | 124,122 | 9 | 114,659 | 9 | 104,527 | 9 | 93,759 | 9 | 82,991 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 142,756 | 1/4 | 133,348 | 1/4 | 123,925 | 1/4 | 114,462 | 1/4 | 104,303 | 1/4 | 93,535 | 1/4 | 82,767 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 142,561 | 1/2 | 133,153 | 1/2 | 123,728 | 1/2 | 114,265 | 1/2 | 104,079 | 1/2 | 93,310 | 1/2 | 82,542 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 142,367 | 3/4 | 132,957 | 3/4 | 123,531 | 3/4 | 114,068 | 3/4 | 103,854 | 3/4 | 93,086 | 3/4 | 82,318 |
| 10 | | 10 | | 10 | | 10 | 142,172 | 10 | 132,761 | 10 | 123,333 | 10 | 113,871 | 10 | 103,630 | 10 | 92,862 | 10 | 82,094 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 141,978 | 1/4 | 132,565 | 1/4 | 123,136 | 1/4 | 113,674 | 1/4 | 103,406 | 1/4 | 92,637 | 1/4 | 81,869 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 141,783 | 1/2 | 132,369 | 1/2 | 122,939 | 1/2 | 113,478 | 1/2 | 103,181 | 1/2 | 92,413 | 1/2 | 81,645 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 141,589 | 3/4 | 132,173 | 3/4 | 122,742 | 3/4 | 113,281 | 3/4 | 102,957 | 3/4 | 92,189 | 3/4 | 81,420 |
| 11 | | 11 | | 11 | | 11 | 141,394 | 11 | 131,977 | 11 | 122,545 | 11 | 113,084 | 11 | 102,733 | 11 | 91,964 | 11 | 81,196 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 141,200 | 1/4 | 131,781 | 1/4 | 122,348 | 1/4 | 112,887 | 1/4 | 102,508 | 1/4 | 91,740 | 1/4 | 80,972 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 141,005 | 1/2 | 131,585 | 1/2 | 122,151 | 1/2 | 112,690 | 1/2 | 102,284 | 1/2 | 91,516 | 1/2 | 80,747 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 140,811 | 3/4 | 131,389 | 3/4 | 121,953 | 3/4 | 112,493 | 3/4 | 102,060 | 3/4 | 91,291 | 3/4 | 80,523 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 26'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|----|--------|
| 0 | 69,573 | 0 | 58,815 | 0 | 48,050 | 0 | 37,285 | 0 | 26,689 | 0 | 15,964 | 0 | 5,176 | 0 | | 0 | | 0 | |
| 1/4 | 69,350 | 1/4 | 58,591 | 1/4 | 47,826 | 1/4 | 37,061 | 1/4 | 26,471 | 1/4 | 15,739 | 1/4 | 4,952 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 69,126 | 1/2 | 58,366 | 1/2 | 47,602 | 1/2 | 36,837 | 1/2 | 26,252 | 1/2 | 15,514 | 1/2 | 4,729 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 68,902 | 3/4 | 58,142 | 3/4 | 47,377 | 3/4 | 36,613 | 3/4 | 26,034 | 3/4 | 15,289 | 3/4 | 4,506 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 1 | 68,679 | 1 | 57,918 | 1 | 47,153 | 1 | 36,388 | 1 | 25,815 | 1 | 15,064 | 1 | 4,283 | 1 | 1 | | 1 | | 1 |
| 1/4 | 68,455 | 1/4 | 57,694 | 1/4 | 46,929 | 1/4 | 36,164 | 1/4 | 25,596 | 1/4 | 14,840 | 1/4 | 4,061 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 68,231 | 1/2 | 57,469 | 1/2 | 46,705 | 1/2 | 35,940 | 1/2 | 25,377 | 1/2 | 14,615 | 1/2 | 3,839 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 68,008 | 3/4 | 57,245 | 3/4 | 46,480 | 3/4 | 35,716 | 3/4 | 25,159 | 3/4 | 14,390 | 3/4 | 3,616 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 2 | 67,784 | 2 | 57,021 | 2 | 46,256 | 2 | 35,491 | 2 | 24,940 | 2 | 14,165 | 2 | 3,396 | 2 | 2 | | 2 | | 2 |
| 1/4 | 67,560 | 1/4 | 56,797 | 1/4 | 46,032 | 1/4 | 35,267 | 1/4 | 24,721 | 1/4 | 13,940 | 1/4 | 3,175 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 67,336 | 1/2 | 56,572 | 1/2 | 45,808 | 1/2 | 35,043 | 1/2 | 24,502 | 1/2 | 13,715 | 1/2 | 2,955 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 67,113 | 3/4 | 56,348 | 3/4 | 45,583 | 3/4 | 34,818 | 3/4 | 24,283 | 3/4 | 13,491 | 3/4 | 2,735 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 3 | 66,889 | 3 | 56,124 | 3 | 45,359 | 3 | 34,594 | 3 | 24,058 | 3 | 13,266 | 3 | 2,529 | 3 | 3 | | 3 | | 3 |
| 1/4 | 66,664 | 1/4 | 55,900 | 1/4 | 45,135 | 1/4 | 34,370 | 1/4 | 23,834 | 1/4 | 13,041 | 1/4 | 2,324 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 66,440 | 1/2 | 55,675 | 1/2 | 44,910 | 1/2 | 34,146 | 1/2 | 23,609 | 1/2 | 12,816 | 1/2 | 2,118 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 66,216 | 3/4 | 55,451 | 3/4 | 44,686 | 3/4 | 33,921 | 3/4 | 23,384 | 3/4 | 12,591 | 3/4 | 1,913 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 4 | 65,991 | 4 | 55,227 | 4 | 44,462 | 4 | 33,697 | 4 | 23,159 | 4 | 12,366 | 4 | 1,744 | 4 | 4 | | 4 | | 4 |
| 1/4 | 65,767 | 1/4 | 55,002 | 1/4 | 44,238 | 1/4 | 33,473 | 1/4 | 22,934 | 1/4 | 12,141 | 1/4 | 1,576 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 65,543 | 1/2 | 54,778 | 1/2 | 44,013 | 1/2 | 33,249 | 1/2 | 22,709 | 1/2 | 11,917 | 1/2 | 1,407 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 65,319 | 3/4 | 54,554 | 3/4 | 43,789 | 3/4 | 33,024 | 3/4 | 22,484 | 3/4 | 11,692 | 3/4 | 1,238 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 5 | 65,094 | 5 | 54,330 | 5 | 43,565 | 5 | 32,806 | 5 | 22,260 | 5 | 11,467 | 5 | 1,107 | 5 | 5 | | 5 | | 5 |
| 1/4 | 64,870 | 1/4 | 54,105 | 1/4 | 43,341 | 1/4 | 32,587 | 1/4 | 22,035 | 1/4 | 11,242 | 1/4 | 976 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 64,646 | 1/2 | 53,881 | 1/2 | 43,116 | 1/2 | 32,369 | 1/2 | 21,810 | 1/2 | 11,017 | 1/2 | 845 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 64,422 | 3/4 | 53,657 | 3/4 | 42,892 | 3/4 | 32,151 | 3/4 | 21,585 | 3/4 | 10,792 | 3/4 | 714 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 6 | 64,197 | 6 | 53,433 | 6 | 42,668 | 6 | 31,932 | 6 | 21,360 | 6 | 10,568 | 6 | 620 | 6 | 6 | | 6 | | 6 |
| 1/4 | 63,973 | 1/4 | 53,208 | 1/4 | 42,444 | 1/4 | 31,714 | 1/4 | 21,135 | 1/4 | 10,343 | 1/4 | 526 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 63,749 | 1/2 | 52,984 | 1/2 | 42,219 | 1/2 | 31,495 | 1/2 | 20,911 | 1/2 | 10,118 | 1/2 | 433 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 63,525 | 3/4 | 52,760 | 3/4 | 41,995 | 3/4 | 31,277 | 3/4 | 20,686 | 3/4 | 9,893 | 3/4 | 339 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 7 | 63,300 | 7 | 52,536 | 7 | 41,771 | 7 | 31,058 | 7 | 20,461 | 7 | 9,668 | 7 | 283 | 7 | 7 | | 7 | | 7 |
| 1/4 | 63,076 | 1/4 | 52,311 | 1/4 | 41,546 | 1/4 | 30,840 | 1/4 | 20,236 | 1/4 | 9,443 | 1/4 | 227 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 62,852 | 1/2 | 52,087 | 1/2 | 41,322 | 1/2 | 30,621 | 1/2 | 20,011 | 1/2 | 9,218 | 1/2 | 171 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 62,627 | 3/4 | 51,863 | 3/4 | 41,098 | 3/4 | 30,403 | 3/4 | 19,786 | 3/4 | 8,994 | 3/4 | 114 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 8 | 62,403 | 8 | 51,638 | 8 | 40,874 | 8 | 30,184 | 8 | 19,561 | 8 | 8,769 | 8 | 96 | 8 | 8 | | 8 | | 8 |
| 1/4 | 62,179 | 1/4 | 51,414 | 1/4 | 40,649 | 1/4 | 29,966 | 1/4 | 19,337 | 1/4 | 8,544 | 1/4 | 77 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 61,955 | 1/2 | 51,190 | 1/2 | 40,425 | 1/2 | 29,748 | 1/2 | 19,112 | 1/2 | 8,319 | 1/2 | 58 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 61,730 | 3/4 | 50,966 | 3/4 | 40,201 | 3/4 | 29,529 | 3/4 | 18,887 | 3/4 | 8,094 | 3/4 | 39 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 9 | 61,506 | 9 | 50,741 | 9 | 39,977 | 9 | 29,311 | 9 | 18,662 | 9 | 7,869 | 9 | | 9 | 9 | | 9 | | 9 |
| 1/4 | 61,282 | 1/4 | 50,517 | 1/4 | 39,752 | 1/4 | 29,092 | 1/4 | 18,437 | 1/4 | 7,645 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 61,058 | 1/2 | 50,293 | 1/2 | 39,528 | 1/2 | 28,874 | 1/2 | 18,212 | 1/2 | 7,420 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 60,833 | 3/4 | 50,069 | 3/4 | 39,304 | 3/4 | 28,655 | 3/4 | 17,987 | 3/4 | 7,195 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 10 | 60,609 | 10 | 49,844 | 10 | 39,080 | 10 | 28,437 | 10 | 17,763 | 10 | 6,970 | 10 | | 10 | 10 | | 10 | | 10 |
| 1/4 | 60,385 | 1/4 | 49,620 | 1/4 | 38,855 | 1/4 | 28,218 | 1/4 | 17,538 | 1/4 | 6,746 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 60,161 | 1/2 | 49,396 | 1/2 | 38,631 | 1/2 | 28,000 | 1/2 | 17,313 | 1/2 | 6,521 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 59,936 | 3/4 | 49,172 | 3/4 | 38,407 | 3/4 | 27,782 | 3/4 | 17,088 | 3/4 | 6,296 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 11 | 59,712 | 11 | 48,947 | 11 | 38,182 | 11 | 27,563 | 11 | 16,863 | 11 | 6,072 | 11 | | 11 | 11 | | 11 | | 11 |
| 1/4 | 59,488 | 1/4 | 48,723 | 1/4 | 37,958 | 1/4 | 27,345 | 1/4 | 16,638 | 1/4 | 5,848 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 59,263 | 1/2 | 48,499 | 1/2 | 37,734 | 1/2 | 27,126 | 1/2 | 16,414 | 1/2 | 5,624 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 59,039 | 3/4 | 48,274 | 3/4 | 37,510 | 3/4 | 26,908 | 3/4 | 16,189 | 3/4 | 5,399 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2013 CL
CALCULATED: 08/20/2013 CL
PRINTED: 08/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "CBC 1366"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--------|
| IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN |
| 0 | 0 | 0 | 0 | 0 | 162,391 | 0 | 150,388 | 0 | 138,359 | 0 | 126,281 | 0 | 114,204 | 0 | 102,126 | 0 | 90,047 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 162,144 | 1/4 | 150,138 | 1/4 | 138,107 | 1/4 | 126,030 | 1/4 | 113,952 | 1/4 | 101,874 | 1/4 | 89,796 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 161,896 | 1/2 | 149,887 | 1/2 | 137,856 | 1/2 | 125,778 | 1/2 | 113,700 | 1/2 | 101,623 | 1/2 | 89,544 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 170,527 | 3/4 | 161,648 | 3/4 | 149,637 | 3/4 | 137,604 | 3/4 | 125,526 | 3/4 | 113,449 | 3/4 | 101,371 | 3/4 | 89,292 |
| 1 | 1 | 1 | 1 | 1 | 170,510 | 1 | 161,398 | 1 | 149,387 | 1 | 137,353 | 1 | 125,275 | 1 | 113,197 | 1 | 101,119 | 1 | 89,041 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 170,493 | 1/4 | 161,147 | 1/4 | 149,137 | 1/4 | 137,101 | 1/4 | 125,023 | 1/4 | 112,945 | 1/4 | 100,868 | 1/4 | 88,789 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 170,476 | 1/2 | 160,897 | 1/2 | 148,886 | 1/2 | 136,849 | 1/2 | 124,772 | 1/2 | 112,694 | 1/2 | 100,616 | 1/2 | 88,537 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 170,459 | 3/4 | 160,647 | 3/4 | 148,636 | 3/4 | 136,598 | 3/4 | 124,520 | 3/4 | 112,442 | 3/4 | 100,364 | 3/4 | 88,286 |
| 2 | 2 | 2 | 2 | 2 | 170,399 | 2 | 160,397 | 2 | 148,386 | 2 | 136,346 | 2 | 124,268 | 2 | 112,191 | 2 | 100,113 | 2 | 88,034 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 170,340 | 1/4 | 160,146 | 1/4 | 148,136 | 1/4 | 136,094 | 1/4 | 124,017 | 1/4 | 111,939 | 1/4 | 99,861 | 1/4 | 87,782 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 170,281 | 1/2 | 159,896 | 1/2 | 147,886 | 1/2 | 135,843 | 1/2 | 123,765 | 1/2 | 111,687 | 1/2 | 99,610 | 1/2 | 87,531 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 170,222 | 3/4 | 159,646 | 3/4 | 147,635 | 3/4 | 135,591 | 3/4 | 123,513 | 3/4 | 111,436 | 3/4 | 99,358 | 3/4 | 87,279 |
| 3 | 3 | 3 | 3 | 3 | 170,121 | 3 | 159,396 | 3 | 147,385 | 3 | 135,340 | 3 | 123,262 | 3 | 111,184 | 3 | 99,106 | 3 | 87,027 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 170,020 | 1/4 | 159,146 | 1/4 | 147,135 | 1/4 | 135,088 | 1/4 | 123,010 | 1/4 | 110,932 | 1/4 | 98,855 | 1/4 | 86,776 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 169,919 | 1/2 | 158,895 | 1/2 | 146,885 | 1/2 | 134,836 | 1/2 | 122,759 | 1/2 | 110,681 | 1/2 | 98,603 | 1/2 | 86,524 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 169,817 | 3/4 | 158,645 | 3/4 | 146,634 | 3/4 | 134,585 | 3/4 | 122,507 | 3/4 | 110,429 | 3/4 | 98,351 | 3/4 | 86,272 |
| 4 | 4 | 4 | 4 | 4 | 169,674 | 4 | 158,395 | 4 | 146,384 | 4 | 134,333 | 4 | 122,255 | 4 | 110,178 | 4 | 98,100 | 4 | 86,021 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 169,531 | 1/4 | 158,145 | 1/4 | 146,134 | 1/4 | 134,081 | 1/4 | 122,004 | 1/4 | 109,926 | 1/4 | 97,848 | 1/4 | 85,769 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 169,388 | 1/2 | 157,894 | 1/2 | 145,884 | 1/2 | 133,830 | 1/2 | 121,752 | 1/2 | 109,674 | 1/2 | 97,597 | 1/2 | 85,517 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 169,245 | 3/4 | 157,644 | 3/4 | 145,634 | 3/4 | 133,578 | 3/4 | 121,500 | 3/4 | 109,423 | 3/4 | 97,345 | 3/4 | 85,266 |
| 5 | 5 | 5 | 5 | 5 | 169,060 | 5 | 157,394 | 5 | 145,383 | 5 | 133,327 | 5 | 121,249 | 5 | 109,171 | 5 | 97,093 | 5 | 85,014 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 168,875 | 1/4 | 157,144 | 1/4 | 145,133 | 1/4 | 133,075 | 1/4 | 120,997 | 1/4 | 108,919 | 1/4 | 96,842 | 1/4 | 84,763 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 168,690 | 1/2 | 156,894 | 1/2 | 144,883 | 1/2 | 132,823 | 1/2 | 120,746 | 1/2 | 108,668 | 1/2 | 96,590 | 1/2 | 84,511 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 168,505 | 3/4 | 156,643 | 3/4 | 144,633 | 3/4 | 132,572 | 3/4 | 120,494 | 3/4 | 108,416 | 3/4 | 96,338 | 3/4 | 84,259 |
| 6 | 6 | 6 | 6 | 6 | 168,278 | 6 | 156,393 | 6 | 144,382 | 6 | 132,320 | 6 | 120,242 | 6 | 108,165 | 6 | 96,087 | 6 | 84,008 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 168,051 | 1/4 | 156,143 | 1/4 | 144,132 | 1/4 | 132,069 | 1/4 | 119,991 | 1/4 | 107,913 | 1/4 | 95,835 | 1/4 | 83,756 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 167,824 | 1/2 | 155,893 | 1/2 | 143,882 | 1/2 | 131,817 | 1/2 | 119,739 | 1/2 | 107,661 | 1/2 | 95,584 | 1/2 | 83,504 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 167,598 | 3/4 | 155,642 | 3/4 | 143,632 | 3/4 | 131,565 | 3/4 | 119,488 | 3/4 | 107,410 | 3/4 | 95,332 | 3/4 | 83,253 |
| 7 | 7 | 7 | 7 | 7 | 167,350 | 7 | 155,392 | 7 | 143,382 | 7 | 131,314 | 7 | 119,236 | 7 | 107,158 | 7 | 95,080 | 7 | 83,001 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 167,102 | 1/4 | 155,142 | 1/4 | 143,131 | 1/4 | 131,062 | 1/4 | 118,984 | 1/4 | 106,907 | 1/4 | 94,829 | 1/4 | 82,749 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 166,854 | 1/2 | 154,892 | 1/2 | 142,881 | 1/2 | 130,810 | 1/2 | 118,733 | 1/2 | 106,655 | 1/2 | 94,577 | 1/2 | 82,498 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 166,606 | 3/4 | 154,642 | 3/4 | 142,631 | 3/4 | 130,559 | 3/4 | 118,481 | 3/4 | 106,403 | 3/4 | 94,326 | 3/4 | 82,246 |
| 8 | 8 | 8 | 8 | 8 | 166,358 | 8 | 154,391 | 8 | 142,381 | 8 | 130,307 | 8 | 118,229 | 8 | 106,152 | 8 | 94,074 | 8 | 81,994 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 166,110 | 1/4 | 154,141 | 1/4 | 142,131 | 1/4 | 130,056 | 1/4 | 117,978 | 1/4 | 105,900 | 1/4 | 93,822 | 1/4 | 81,743 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 165,862 | 1/2 | 153,891 | 1/2 | 141,880 | 1/2 | 129,804 | 1/2 | 117,726 | 1/2 | 105,648 | 1/2 | 93,571 | 1/2 | 81,491 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 165,614 | 3/4 | 153,641 | 3/4 | 141,630 | 3/4 | 129,552 | 3/4 | 117,475 | 3/4 | 105,397 | 3/4 | 93,319 | 3/4 | 81,239 |
| 9 | 9 | 9 | 9 | 9 | 165,366 | 9 | 153,390 | 9 | 141,378 | 9 | 129,301 | 9 | 117,223 | 9 | 105,145 | 9 | 93,067 | 9 | 80,988 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 165,118 | 1/4 | 153,140 | 1/4 | 141,127 | 1/4 | 129,049 | 1/4 | 116,971 | 1/4 | 104,894 | 1/4 | 92,816 | 1/4 | 80,736 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 164,871 | 1/2 | 152,890 | 1/2 | 140,875 | 1/2 | 128,797 | 1/2 | 116,720 | 1/2 | 104,642 | 1/2 | 92,564 | 1/2 | 80,484 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 164,623 | 3/4 | 152,640 | 3/4 | 140,624 | 3/4 | 128,546 | 3/4 | 116,468 | 3/4 | 104,390 | 3/4 | 92,312 | 3/4 | 80,233 |
| 10 | 10 | 10 | 10 | 10 | 164,375 | 10 | 152,390 | 10 | 140,372 | 10 | 128,294 | 10 | 116,216 | 10 | 104,139 | 10 | 92,061 | 10 | 79,981 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 164,127 | 1/4 | 152,139 | 1/4 | 140,120 | 1/4 | 128,043 | 1/4 | 115,965 | 1/4 | 103,887 | 1/4 | 91,809 | 1/4 | 79,729 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 163,879 | 1/2 | 151,889 | 1/2 | 139,869 | 1/2 | 127,791 | 1/2 | 115,713 | 1/2 | 103,635 | 1/2 | 91,557 | 1/2 | 79,478 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 163,631 | 3/4 | 151,639 | 3/4 | 139,617 | 3/4 | 127,539 | 3/4 | 115,462 | 3/4 | 103,384 | 3/4 | 91,306 | 3/4 | 79,226 |
| 11 | 11 | 11 | 11 | 11 | 163,383 | 11 | 151,389 | 11 | 139,365 | 11 | 127,288 | 11 | 115,210 | 11 | 103,132 | 11 | 91,054 | 11 | 78,974 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 163,135 | 1/4 | 151,138 | 1/4 | 139,114 | 1/4 | 127,036 | 1/4 | 114,958 | 1/4 | 102,881 | 1/4 | 90,802 | 1/4 | 78,723 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 162,887 | 1/2 | 150,888 | 1/2 | 138,862 | 1/2 | 126,784 | 1/2 | 114,707 | 1/2 | 102,629 | 1/2 | 90,551 | 1/2 | 78,471 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 162,639 | 3/4 | 150,638 | 3/4 | 138,611 | 3/4 | 126,533 | 3/4 | 114,455 | 3/4 | 102,377 | 3/4 | 90,299 | 3/4 | 78,219 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 77,968 | 0 | 65,888 | 0 | 53,808 | 0 | 41,728 | 0 | 29,892 | 0 | 17,863 | 0 | 5,789 | 0 | | 0 | | 0 | |
| 1/4 | 77,716 | 1/4 | 65,636 | 1/4 | 53,556 | 1/4 | 41,476 | 1/4 | 29,647 | 1/4 | 17,611 | 1/4 | 5,539 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 77,464 | 1/2 | 65,384 | 1/2 | 53,305 | 1/2 | 41,225 | 1/2 | 29,403 | 1/2 | 17,359 | 1/2 | 5,288 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 77,213 | 3/4 | 65,133 | 3/4 | 53,053 | 3/4 | 40,973 | 3/4 | 29,159 | 3/4 | 17,108 | 3/4 | 5,038 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 76,961 | 1 | 64,881 | 1 | 52,801 | 1 | 40,721 | 1 | 28,914 | 1 | 16,856 | 1 | 4,789 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 76,709 | 1/4 | 64,629 | 1/4 | 52,550 | 1/4 | 40,470 | 1/4 | 28,670 | 1/4 | 16,604 | 1/4 | 4,541 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 76,458 | 1/2 | 64,378 | 1/2 | 52,298 | 1/2 | 40,218 | 1/2 | 28,425 | 1/2 | 16,353 | 1/2 | 4,292 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 76,206 | 3/4 | 64,126 | 3/4 | 52,046 | 3/4 | 39,966 | 3/4 | 28,181 | 3/4 | 16,101 | 3/4 | 4,043 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 75,954 | 2 | 63,874 | 2 | 51,795 | 2 | 39,715 | 2 | 27,929 | 2 | 15,849 | 2 | 3,796 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 75,703 | 1/4 | 63,623 | 1/4 | 51,543 | 1/4 | 39,463 | 1/4 | 27,677 | 1/4 | 15,598 | 1/4 | 3,550 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 75,451 | 1/2 | 63,371 | 1/2 | 51,291 | 1/2 | 39,211 | 1/2 | 27,426 | 1/2 | 15,346 | 1/2 | 3,303 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 75,199 | 3/4 | 63,119 | 3/4 | 51,040 | 3/4 | 38,960 | 3/4 | 27,174 | 3/4 | 15,095 | 3/4 | 3,056 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 74,948 | 3 | 62,868 | 3 | 50,788 | 3 | 38,708 | 3 | 26,922 | 3 | 14,843 | 3 | 2,826 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 74,696 | 1/4 | 62,616 | 1/4 | 50,536 | 1/4 | 38,456 | 1/4 | 26,671 | 1/4 | 14,591 | 1/4 | 2,596 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 74,444 | 1/2 | 62,364 | 1/2 | 50,285 | 1/2 | 38,205 | 1/2 | 26,419 | 1/2 | 14,340 | 1/2 | 2,366 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 74,193 | 3/4 | 62,113 | 3/4 | 50,033 | 3/4 | 37,953 | 3/4 | 26,167 | 3/4 | 14,088 | 3/4 | 2,136 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 73,941 | 4 | 61,861 | 4 | 49,781 | 4 | 37,709 | 4 | 25,916 | 4 | 13,836 | 4 | 1,948 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 73,689 | 1/4 | 61,609 | 1/4 | 49,530 | 1/4 | 37,464 | 1/4 | 25,664 | 1/4 | 13,585 | 1/4 | 1,759 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 73,438 | 1/2 | 61,358 | 1/2 | 49,278 | 1/2 | 37,219 | 1/2 | 25,412 | 1/2 | 13,333 | 1/2 | 1,570 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 73,186 | 3/4 | 61,106 | 3/4 | 49,026 | 3/4 | 36,975 | 3/4 | 25,161 | 3/4 | 13,081 | 3/4 | 1,381 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 72,934 | 5 | 60,854 | 5 | 48,775 | 5 | 36,730 | 5 | 24,909 | 5 | 12,830 | 5 | 1,235 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 72,683 | 1/4 | 60,603 | 1/4 | 48,523 | 1/4 | 36,486 | 1/4 | 24,657 | 1/4 | 12,578 | 1/4 | 1,088 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 72,431 | 1/2 | 60,351 | 1/2 | 48,271 | 1/2 | 36,242 | 1/2 | 24,406 | 1/2 | 12,326 | 1/2 | 941 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 72,179 | 3/4 | 60,100 | 3/4 | 48,020 | 3/4 | 35,998 | 3/4 | 24,154 | 3/4 | 12,075 | 3/4 | 794 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 71,928 | 6 | 59,848 | 6 | 47,768 | 6 | 35,753 | 6 | 23,902 | 6 | 11,823 | 6 | 689 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 71,676 | 1/4 | 59,596 | 1/4 | 47,516 | 1/4 | 35,509 | 1/4 | 23,651 | 1/4 | 11,571 | 1/4 | 584 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 71,424 | 1/2 | 59,345 | 1/2 | 47,265 | 1/2 | 35,265 | 1/2 | 23,399 | 1/2 | 11,320 | 1/2 | 480 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 71,173 | 3/4 | 59,093 | 3/4 | 47,013 | 3/4 | 35,021 | 3/4 | 23,147 | 3/4 | 11,068 | 3/4 | 375 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 70,921 | 7 | 58,841 | 7 | 46,761 | 7 | 34,777 | 7 | 22,896 | 7 | 10,816 | 7 | 312 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 70,669 | 1/4 | 58,590 | 1/4 | 46,510 | 1/4 | 34,532 | 1/4 | 22,644 | 1/4 | 10,565 | 1/4 | 249 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 70,418 | 1/2 | 58,338 | 1/2 | 46,258 | 1/2 | 34,288 | 1/2 | 22,392 | 1/2 | 10,313 | 1/2 | 186 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 70,166 | 3/4 | 58,086 | 3/4 | 46,006 | 3/4 | 34,044 | 3/4 | 22,141 | 3/4 | 10,061 | 3/4 | 123 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 69,914 | 8 | 57,835 | 8 | 45,755 | 8 | 33,800 | 8 | 21,889 | 8 | 9,810 | 8 | 102 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 69,663 | 1/4 | 57,583 | 1/4 | 45,503 | 1/4 | 33,555 | 1/4 | 21,638 | 1/4 | 9,558 | 1/4 | 81 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 69,411 | 1/2 | 57,331 | 1/2 | 45,251 | 1/2 | 33,311 | 1/2 | 21,386 | 1/2 | 9,306 | 1/2 | 60 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 69,159 | 3/4 | 57,080 | 3/4 | 45,000 | 3/4 | 33,067 | 3/4 | 21,134 | 3/4 | 9,055 | 3/4 | 39 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 68,908 | 9 | 56,828 | 9 | 44,748 | 9 | 32,823 | 9 | 20,883 | 9 | 8,803 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 68,656 | 1/4 | 56,576 | 1/4 | 44,496 | 1/4 | 32,578 | 1/4 | 20,631 | 1/4 | 8,552 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 68,404 | 1/2 | 56,325 | 1/2 | 44,245 | 1/2 | 32,334 | 1/2 | 20,379 | 1/2 | 8,300 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 68,153 | 3/4 | 56,073 | 3/4 | 43,993 | 3/4 | 32,090 | 3/4 | 20,128 | 3/4 | 8,048 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 67,901 | 10 | 55,821 | 10 | 43,741 | 10 | 31,846 | 10 | 19,876 | 10 | 7,797 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 67,649 | 1/4 | 55,570 | 1/4 | 43,490 | 1/4 | 31,601 | 1/4 | 19,624 | 1/4 | 7,545 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 67,398 | 1/2 | 55,318 | 1/2 | 43,238 | 1/2 | 31,357 | 1/2 | 19,373 | 1/2 | 7,294 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 67,146 | 3/4 | 55,066 | 3/4 | 42,986 | 3/4 | 31,113 | 3/4 | 19,121 | 3/4 | 7,043 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 66,894 | 11 | 54,815 | 11 | 42,735 | 11 | 30,869 | 11 | 18,869 | 11 | 6,792 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 66,643 | 1/4 | 54,563 | 1/4 | 42,483 | 1/4 | 30,624 | 1/4 | 18,618 | 1/4 | 6,541 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 66,391 | 1/2 | 54,311 | 1/2 | 42,231 | 1/2 | 30,380 | 1/2 | 18,366 | 1/2 | 6,290 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 66,139 | 3/4 | 54,060 | 3/4 | 41,980 | 3/4 | 30,136 | 3/4 | 18,114 | 3/4 | 6,039 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2013 CL
CALCULATED: 08/20/2013 CL
PRINTED: 08/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "CBC 1366"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|
| 0 | | 0 | | 0 | | 0 | 144,737 | 0 | 134,074 | 0 | 123,388 | 0 | 112,657 | 0 | 101,927 | 0 | 91,196 | 0 | 80,465 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 144,517 | 1/4 | 133,852 | 1/4 | 123,164 | 1/4 | 112,434 | 1/4 | 101,703 | 1/4 | 90,973 | 1/4 | 80,242 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 144,297 | 1/2 | 133,629 | 1/2 | 122,940 | 1/2 | 112,210 | 1/2 | 101,480 | 1/2 | 90,749 | 1/2 | 80,018 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 144,076 | 3/4 | 133,407 | 3/4 | 122,717 | 3/4 | 111,986 | 3/4 | 101,256 | 3/4 | 90,526 | 3/4 | 79,795 |
| 1 | | 1 | | 1 | | 1 | 151,746 | 1 | 143,856 | 1 | 133,185 | 1 | 122,493 | 1 | 111,763 | 1 | 101,032 | 1 | 90,302 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 151,731 | 1/4 | 143,834 | 1/4 | 132,962 | 1/4 | 122,270 | 1/4 | 111,539 | 1/4 | 100,809 | 1/4 | 90,078 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 151,715 | 1/2 | 143,812 | 1/2 | 132,740 | 1/2 | 122,046 | 1/2 | 111,316 | 1/2 | 100,585 | 1/2 | 89,855 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 151,700 | 3/4 | 143,793 | 3/4 | 132,518 | 3/4 | 121,823 | 3/4 | 111,092 | 3/4 | 100,362 | 3/4 | 89,631 |
| 2 | | 2 | | 2 | | 2 | 151,685 | 2 | 142,967 | 2 | 132,295 | 2 | 121,599 | 2 | 110,869 | 2 | 100,138 | 2 | 89,408 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 151,632 | 1/4 | 142,745 | 1/4 | 132,073 | 1/4 | 121,376 | 1/4 | 110,645 | 1/4 | 99,915 | 1/4 | 89,184 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 151,580 | 1/2 | 142,522 | 1/2 | 131,851 | 1/2 | 121,152 | 1/2 | 110,422 | 1/2 | 99,691 | 1/2 | 88,961 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 151,527 | 3/4 | 142,300 | 3/4 | 131,628 | 3/4 | 120,928 | 3/4 | 110,198 | 3/4 | 99,468 | 3/4 | 88,737 |
| 3 | | 3 | | 3 | | 3 | 151,475 | 3 | 142,078 | 3 | 131,406 | 3 | 120,705 | 3 | 109,974 | 3 | 99,244 | 3 | 88,514 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 151,385 | 1/4 | 141,855 | 1/4 | 131,184 | 1/4 | 120,481 | 1/4 | 109,751 | 1/4 | 99,020 | 1/4 | 88,290 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 151,295 | 1/2 | 141,633 | 1/2 | 130,961 | 1/2 | 120,258 | 1/2 | 109,527 | 1/2 | 98,797 | 1/2 | 88,066 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 151,205 | 3/4 | 141,411 | 3/4 | 130,739 | 3/4 | 120,034 | 3/4 | 109,304 | 3/4 | 98,573 | 3/4 | 87,843 |
| 4 | | 4 | | 4 | | 4 | 151,115 | 4 | 141,188 | 4 | 130,517 | 4 | 119,811 | 4 | 109,080 | 4 | 98,350 | 4 | 87,619 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 150,988 | 1/4 | 140,966 | 1/4 | 130,294 | 1/4 | 119,587 | 1/4 | 108,857 | 1/4 | 98,126 | 1/4 | 87,396 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 150,861 | 1/2 | 140,744 | 1/2 | 130,072 | 1/2 | 119,364 | 1/2 | 108,633 | 1/2 | 97,903 | 1/2 | 87,172 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 150,734 | 3/4 | 140,521 | 3/4 | 129,850 | 3/4 | 119,140 | 3/4 | 108,410 | 3/4 | 97,679 | 3/4 | 86,949 |
| 5 | | 5 | | 5 | | 5 | 150,607 | 5 | 140,299 | 5 | 129,627 | 5 | 118,917 | 5 | 108,186 | 5 | 97,456 | 5 | 86,725 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 150,442 | 1/4 | 140,077 | 1/4 | 129,405 | 1/4 | 118,693 | 1/4 | 107,963 | 1/4 | 97,232 | 1/4 | 86,502 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 150,278 | 1/2 | 139,854 | 1/2 | 129,183 | 1/2 | 118,469 | 1/2 | 107,739 | 1/2 | 97,009 | 1/2 | 86,278 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 150,114 | 3/4 | 139,632 | 3/4 | 128,960 | 3/4 | 118,246 | 3/4 | 107,515 | 3/4 | 96,785 | 3/4 | 86,055 |
| 6 | | 6 | | 6 | | 6 | 149,949 | 6 | 139,410 | 6 | 128,738 | 6 | 118,022 | 6 | 107,292 | 6 | 96,561 | 6 | 85,831 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 149,748 | 1/4 | 139,187 | 1/4 | 128,516 | 1/4 | 117,799 | 1/4 | 107,068 | 1/4 | 96,338 | 1/4 | 85,607 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 149,546 | 1/2 | 138,965 | 1/2 | 128,293 | 1/2 | 117,575 | 1/2 | 106,845 | 1/2 | 96,114 | 1/2 | 85,384 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 149,344 | 3/4 | 138,743 | 3/4 | 128,071 | 3/4 | 117,352 | 3/4 | 106,621 | 3/4 | 95,891 | 3/4 | 85,160 |
| 7 | | 7 | | 7 | | 7 | 149,143 | 7 | 138,520 | 7 | 127,849 | 7 | 117,128 | 7 | 106,398 | 7 | 95,667 | 7 | 84,937 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 148,922 | 1/4 | 138,298 | 1/4 | 127,626 | 1/4 | 116,905 | 1/4 | 106,174 | 1/4 | 95,444 | 1/4 | 84,713 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 148,702 | 1/2 | 138,076 | 1/2 | 127,404 | 1/2 | 116,681 | 1/2 | 105,951 | 1/2 | 95,220 | 1/2 | 84,490 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 148,482 | 3/4 | 137,853 | 3/4 | 127,182 | 3/4 | 116,457 | 3/4 | 105,727 | 3/4 | 94,997 | 3/4 | 84,266 |
| 8 | | 8 | | 8 | | 8 | 148,262 | 8 | 137,631 | 8 | 126,959 | 8 | 116,234 | 8 | 105,503 | 8 | 94,773 | 8 | 84,043 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 148,041 | 1/4 | 137,409 | 1/4 | 126,737 | 1/4 | 116,010 | 1/4 | 105,280 | 1/4 | 94,549 | 1/4 | 83,819 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 147,821 | 1/2 | 137,186 | 1/2 | 126,515 | 1/2 | 115,787 | 1/2 | 105,056 | 1/2 | 94,326 | 1/2 | 83,595 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 147,601 | 3/4 | 136,964 | 3/4 | 126,292 | 3/4 | 115,563 | 3/4 | 104,833 | 3/4 | 94,102 | 3/4 | 83,372 |
| 9 | | 9 | | 9 | | 9 | 147,380 | 9 | 136,742 | 9 | 126,070 | 9 | 115,340 | 9 | 104,609 | 9 | 93,879 | 9 | 83,148 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 147,160 | 1/4 | 136,519 | 1/4 | 125,847 | 1/4 | 115,116 | 1/4 | 104,386 | 1/4 | 93,655 | 1/4 | 82,925 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 146,940 | 1/2 | 136,297 | 1/2 | 125,623 | 1/2 | 114,893 | 1/2 | 104,162 | 1/2 | 93,432 | 1/2 | 82,701 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 146,720 | 3/4 | 136,075 | 3/4 | 125,399 | 3/4 | 114,669 | 3/4 | 103,939 | 3/4 | 93,208 | 3/4 | 82,478 |
| 10 | | 10 | | 10 | | 10 | 146,499 | 10 | 135,852 | 10 | 125,176 | 10 | 114,445 | 10 | 103,715 | 10 | 92,985 | 10 | 82,254 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 146,279 | 1/4 | 135,630 | 1/4 | 124,952 | 1/4 | 114,222 | 1/4 | 103,492 | 1/4 | 92,761 | 1/4 | 82,030 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 146,059 | 1/2 | 135,408 | 1/2 | 124,729 | 1/2 | 113,998 | 1/2 | 103,268 | 1/2 | 92,538 | 1/2 | 81,807 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 145,839 | 3/4 | 135,185 | 3/4 | 124,505 | 3/4 | 113,775 | 3/4 | 103,044 | 3/4 | 92,314 | 3/4 | 81,583 |
| 11 | | 11 | | 11 | | 11 | 145,618 | 11 | 134,963 | 11 | 124,282 | 11 | 113,551 | 11 | 102,821 | 11 | 92,090 | 11 | 81,360 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 145,398 | 1/4 | 134,741 | 1/4 | 124,058 | 1/4 | 113,328 | 1/4 | 102,597 | 1/4 | 91,867 | 1/4 | 81,136 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 145,178 | 1/2 | 134,519 | 1/2 | 123,835 | 1/2 | 113,104 | 1/2 | 102,374 | 1/2 | 91,643 | 1/2 | 80,912 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 144,958 | 3/4 | 134,296 | 3/4 | 123,611 | 3/4 | 112,881 | 3/4 | 102,150 | 3/4 | 91,420 | 3/4 | 80,689 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1366"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 69,733 | 0 | 59,001 | 0 | 48,269 | 0 | 37,536 | 0 | 26,824 | 0 | 16,098 | 0 | 5,370 | 0 | | 0 | | 0 | |
| 1/4 | 69,509 | 1/4 | 58,777 | 1/4 | 48,045 | 1/4 | 37,313 | 1/4 | 26,601 | 1/4 | 15,874 | 1/4 | 5,147 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 69,286 | 1/2 | 58,554 | 1/2 | 47,821 | 1/2 | 37,089 | 1/2 | 26,378 | 1/2 | 15,651 | 1/2 | 4,925 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 69,062 | 3/4 | 58,330 | 3/4 | 47,598 | 3/4 | 36,865 | 3/4 | 26,156 | 3/4 | 15,427 | 3/4 | 4,703 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 1 | 68,839 | 1 | 58,106 | 1 | 47,374 | 1 | 36,642 | 1 | 25,933 | 1 | 15,204 | 1 | 4,481 | 1 | 1 | 1 | | 1 | 1 |
| 1/4 | 68,615 | 1/4 | 57,883 | 1/4 | 47,151 | 1/4 | 36,418 | 1/4 | 25,709 | 1/4 | 14,980 | 1/4 | 4,260 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 68,392 | 1/2 | 57,659 | 1/2 | 46,927 | 1/2 | 36,195 | 1/2 | 25,486 | 1/2 | 14,756 | 1/2 | 4,039 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 68,168 | 3/4 | 57,436 | 3/4 | 46,703 | 3/4 | 35,971 | 3/4 | 25,263 | 3/4 | 14,533 | 3/4 | 3,817 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 2 | 67,944 | 2 | 57,212 | 2 | 46,480 | 2 | 35,748 | 2 | 25,040 | 2 | 14,309 | 2 | 3,596 | 2 | 2 | 2 | | 2 | 2 |
| 1/4 | 67,721 | 1/4 | 56,988 | 1/4 | 46,256 | 1/4 | 35,524 | 1/4 | 24,817 | 1/4 | 14,086 | 1/4 | 3,377 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 67,497 | 1/2 | 56,765 | 1/2 | 46,033 | 1/2 | 35,300 | 1/2 | 24,593 | 1/2 | 13,862 | 1/2 | 3,158 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 67,274 | 3/4 | 56,541 | 3/4 | 45,809 | 3/4 | 35,077 | 3/4 | 24,370 | 3/4 | 13,639 | 3/4 | 2,939 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 3 | 67,050 | 3 | 56,318 | 3 | 45,585 | 3 | 34,853 | 3 | 24,147 | 3 | 13,415 | 3 | 2,720 | 3 | 3 | 3 | | 3 | 3 |
| 1/4 | 66,826 | 1/4 | 56,094 | 1/4 | 45,362 | 1/4 | 34,630 | 1/4 | 23,923 | 1/4 | 13,191 | 1/4 | 2,515 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 66,603 | 1/2 | 55,871 | 1/2 | 45,138 | 1/2 | 34,406 | 1/2 | 23,700 | 1/2 | 12,968 | 1/2 | 2,311 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 66,379 | 3/4 | 55,647 | 3/4 | 44,915 | 3/4 | 34,182 | 3/4 | 23,476 | 3/4 | 12,744 | 3/4 | 2,107 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 4 | 66,156 | 4 | 55,423 | 4 | 44,691 | 4 | 33,959 | 4 | 23,253 | 4 | 12,521 | 4 | 1,902 | 4 | 4 | 4 | | 4 | 4 |
| 1/4 | 65,932 | 1/4 | 55,200 | 1/4 | 44,468 | 1/4 | 33,735 | 1/4 | 23,029 | 1/4 | 12,297 | 1/4 | 1,735 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 65,708 | 1/2 | 54,976 | 1/2 | 44,244 | 1/2 | 33,512 | 1/2 | 22,805 | 1/2 | 12,074 | 1/2 | 1,567 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 65,485 | 3/4 | 54,753 | 3/4 | 44,020 | 3/4 | 33,288 | 3/4 | 22,582 | 3/4 | 11,850 | 3/4 | 1,399 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 5 | 65,261 | 5 | 54,529 | 5 | 43,797 | 5 | 33,064 | 5 | 22,358 | 5 | 11,626 | 5 | 1,232 | 5 | 5 | 5 | | 5 | 5 |
| 1/4 | 65,038 | 1/4 | 54,305 | 1/4 | 43,573 | 1/4 | 32,842 | 1/4 | 22,135 | 1/4 | 11,403 | 1/4 | 1,101 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 64,814 | 1/2 | 54,082 | 1/2 | 43,350 | 1/2 | 32,619 | 1/2 | 21,911 | 1/2 | 11,179 | 1/2 | 971 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 64,591 | 3/4 | 53,858 | 3/4 | 43,126 | 3/4 | 32,396 | 3/4 | 21,687 | 3/4 | 10,956 | 3/4 | 840 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 6 | 64,367 | 6 | 53,635 | 6 | 42,902 | 6 | 32,173 | 6 | 21,464 | 6 | 10,732 | 6 | 710 | 6 | 6 | 6 | | 6 | 6 |
| 1/4 | 64,143 | 1/4 | 53,411 | 1/4 | 42,679 | 1/4 | 31,950 | 1/4 | 21,240 | 1/4 | 10,508 | 1/4 | 617 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 63,920 | 1/2 | 53,187 | 1/2 | 42,455 | 1/2 | 31,727 | 1/2 | 21,017 | 1/2 | 10,285 | 1/2 | 524 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 63,696 | 3/4 | 52,964 | 3/4 | 42,232 | 3/4 | 31,504 | 3/4 | 20,793 | 3/4 | 10,061 | 3/4 | 431 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 7 | 63,473 | 7 | 52,740 | 7 | 42,008 | 7 | 31,282 | 7 | 20,570 | 7 | 9,838 | 7 | 337 | 7 | 7 | 7 | | 7 | 7 |
| 1/4 | 63,249 | 1/4 | 52,517 | 1/4 | 41,784 | 1/4 | 31,059 | 1/4 | 20,346 | 1/4 | 9,614 | 1/4 | 282 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 63,025 | 1/2 | 52,293 | 1/2 | 41,561 | 1/2 | 30,836 | 1/2 | 20,122 | 1/2 | 9,391 | 1/2 | 226 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 62,802 | 3/4 | 52,070 | 3/4 | 41,337 | 3/4 | 30,613 | 3/4 | 19,899 | 3/4 | 9,167 | 3/4 | 170 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 8 | 62,578 | 8 | 51,846 | 8 | 41,114 | 8 | 30,390 | 8 | 19,675 | 8 | 8,943 | 8 | 114 | 8 | 8 | 8 | | 8 | 8 |
| 1/4 | 62,355 | 1/4 | 51,622 | 1/4 | 40,890 | 1/4 | 30,167 | 1/4 | 19,452 | 1/4 | 8,720 | 1/4 | 95 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 62,131 | 1/2 | 51,399 | 1/2 | 40,667 | 1/2 | 29,944 | 1/2 | 19,228 | 1/2 | 8,496 | 1/2 | 77 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 61,907 | 3/4 | 51,175 | 3/4 | 40,443 | 3/4 | 29,721 | 3/4 | 19,004 | 3/4 | 8,273 | 3/4 | 58 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 9 | 61,684 | 9 | 50,952 | 9 | 40,219 | 9 | 29,499 | 9 | 18,781 | 9 | 8,049 | 9 | 39 | 9 | 9 | 9 | | 9 | 9 |
| 1/4 | 61,460 | 1/4 | 50,728 | 1/4 | 39,996 | 1/4 | 29,276 | 1/4 | 18,557 | 1/4 | 7,826 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 61,237 | 1/2 | 50,504 | 1/2 | 39,772 | 1/2 | 29,053 | 1/2 | 18,334 | 1/2 | 7,602 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 61,013 | 3/4 | 50,281 | 3/4 | 39,549 | 3/4 | 28,830 | 3/4 | 18,110 | 3/4 | 7,378 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 10 | 60,789 | 10 | 50,057 | 10 | 39,325 | 10 | 28,607 | 10 | 17,887 | 10 | 7,155 | 10 | | 10 | 10 | 10 | | 10 | 10 |
| 1/4 | 60,566 | 1/4 | 49,834 | 1/4 | 39,101 | 1/4 | 28,384 | 1/4 | 17,663 | 1/4 | 6,931 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 60,342 | 1/2 | 49,610 | 1/2 | 38,878 | 1/2 | 28,161 | 1/2 | 17,439 | 1/2 | 6,708 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 60,119 | 3/4 | 49,386 | 3/4 | 38,654 | 3/4 | 27,938 | 3/4 | 17,216 | 3/4 | 6,485 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 11 | 59,895 | 11 | 49,163 | 11 | 38,431 | 11 | 27,716 | 11 | 16,992 | 11 | 6,261 | 11 | | 11 | 11 | 11 | | 11 | 11 |
| 1/4 | 59,672 | 1/4 | 48,939 | 1/4 | 38,207 | 1/4 | 27,493 | 1/4 | 16,769 | 1/4 | 6,038 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 59,448 | 1/2 | 48,716 | 1/2 | 37,983 | 1/2 | 27,270 | 1/2 | 16,545 | 1/2 | 5,815 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 59,224 | 3/4 | 48,492 | 3/4 | 37,760 | 3/4 | 27,047 | 3/4 | 16,322 | 3/4 | 5,592 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/20/2013 CL
CALCULATED: 08/20/2013 CL
PRINTED: 08/20/2013 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013